

REAL TIME VOLUME TRACKING (RTVT) AND HARMONISED MAPS DEVELOPMENT FINAL REPORT

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SUBMITTED ON: **21ST JUNE 2013**

SUBMITTED TO:

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INTRODUCTION

The Real Time Volume Tracking (RTVT) is a web based warehouse volume tracking system that utilizes an Android mobile application to capture warehouse data and transmit it to the central server. From the central server the data is available on the RATIN website as well as using SMS data query.

The development of RTVT was undertaken concurrently with the harmonization of RATIN maps in which 742 warehouse locations from three sources were sorted and merged into a single map of 710 locations. During the development of RTVT, 19 warehouses were selected for piloting with 33 store operators trained.

Immediately after the training, data was received from most of the warehouses in Kenya and Uganda, with those in Tanzania not sending data because of grain unavailability in the warehouse. Further changes and improvements were made to the system based on the operators' feedback after the training resulting to the merging of RTVT to RATIN.

We expect most warehouses to come online after this merging, however a number of issues have been raised by the warehouse operators which need to be addressed, and these include:

- Provision of airtime for internet data needed for the transmission of data. This can be as low as USD 2 per month per store operator in Kenya. This airtime can be disbursed from EAGC'S country offices to individual users without the necessity of sending money to the users.
- Training of the warehouse operators on submission of market prices on their local markets so that they can also serve as market monitors in their localities.
- Need for training of the warehouse operators on the product grading. Most of them cannot clearly state the differences between the existing product grades.
- The stores operators need constant follow-up by phone or email on any of the issues that they might be facing.
- Some store operators have requested for a follow-up training on RTVT and RATIN especially in Tanzania where their awareness of EAGC was low.

Apart from the RTVT related activities mentioned above, a number of other RATIN support activities were undertaken these include:

- Set up of remote training system on RATIN SMS Server with Benjamin Aijuka in Kampala and Marie Claire at Kigali using a combination of Team Viewer remote training utility and Skype VOIP/IM.
- Development of a simplified RATIN SMS Server instruction manual which has been added to the training manual.
- Modification of RATIN SMS queries for Rwanda.
- Assignment of additional market monitors on RATIN. These include market monitors in Mombasa, Kisumu and Kitale in Kenya, Arusha, Mwanza and Iringa in Tanzania, Kicukiro and Nyabugogo markets in Rwanda, Ngozi and Gitega in Burundi.
- Formatting and uploads of various RATIN reports on the website.

- Development of new easy to use RATIN Administrators Dashboard for user and data management.

The following table below summarizes RTVT development checklist.

The following table below summarizes RTVT development progress.

RTVT DEVELOPMENT CHECKLIST				SIGNOFF	
	TASK	STATUS	DUE DATE	EAGC	COMPETE
1	Android Mobile Application	done	1/3/2013	✓	
2	RTVT harmonized maps spreadsheet	done	1/11/2013	✓	
3	Harmonized Maps prototypes	done	1/19/2013	✓	
4	Harmonized Maps Final	done	2/5/2013	✓	
	RTVT SUMMARY				
5	RTVT Scroll bar Prototype	done			
6	RTVT Scroll bar Final				
7	RTVT Table Total Volume Prototype			✓	
8	RTVT Table Total Volume Final		26/4/2012		
	RTVT HOMEPAGE				
9	RTVT Map prototype	done	1/11/2013	✓	
10	RTVT Map Final	done	1/18/2013	✓	
11	RTVT Product Tables Prototype	done	1/11/2013	✓	
12	RTVT Product Tables	done	1/31/2013	✓	
13	RTVT Country Trend Charts Prototype	done	1/28/2013	✓	
14	RTVT Country Trend Charts	done	2/7/2013	✓	
	RTVT PRODUCT PAGE				
15	RTVT Product Table Prototype	done	1/11/2013	✓	
16	RTVT Product Table Final	done	2/5/2013	✓	
17	RTVT Product Chart Prototype	done	1/13/2013	✓	
18	RTVT Product Chart Final	done	2/5/2013	✓	
	RTVT STORAGE FACILITIES PAGE				
19	RTVT Product Table Prototype	done	1/11/2013	✓	
20	RTVT Product Table Final	done	2/5/2013	✓	
21	RTVT Product Chart Prototype	done	1/13/2013	✓	
22	RTVT Trend Charts Prototypes	done	2/5/2013	✓	
23	RTVT SMS QUERIES	done	2/5/2013		
24	RTVT SEARCH, AND NEWSLETTER COMPONENT	done	2/18/2013		
25	RTVT TESTING AND FINE TUNING	ongoing	4/30/2013	✓	
26	RTVT TRAINING KENYA	done	BETWEEN		
27	RTVT TRAINING UGANDA	done	3/11/2013	✓	
28	RTVT TRAINING TANZANIA	done	4/4/2013		
29	MERGING OF RTVT WITH RATIN	done	5/4/2013	✓	
30	RTVT DRAFT USERS/ADMINISTRATORS MANUAL	done	5/30/2013	✓	
31	RTVT FINAL USERS/ADMINISTRATORS MANUAL	done	5/30/2013	✓	
32	RATIN/RTVT TRAINING AT THE SECRATARIAT	done	6/4/2012	✓	

FOR EAGC

GERALD MAMASILA

Date:

18/6/2013

FOR USAID COMPETE

Date:

CONSULTANT

Allan Kiprop

Date:

18th June 2013

REAL TIME VOLUME TRACKING-RTVT

RATIN HOMEPAGE

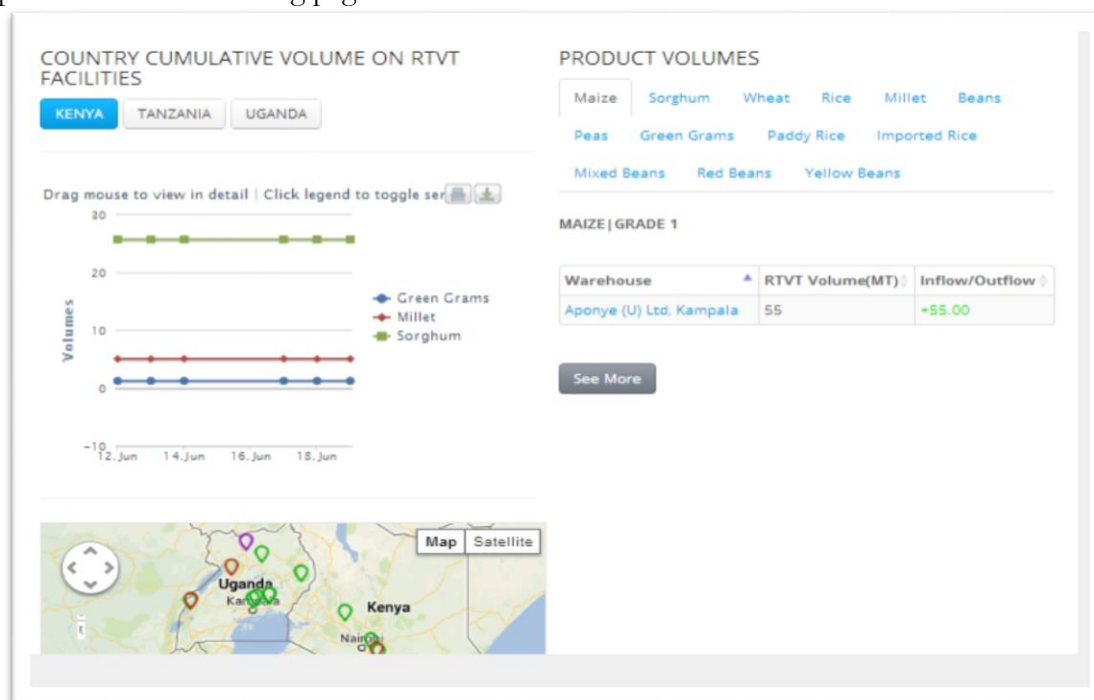
A link to RTVT and harmonized maps has been created at RATIN homepage.



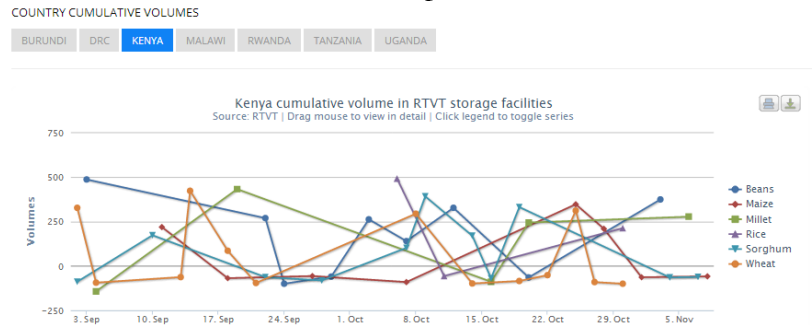
RTVT LANDING PAGE

The RTVT landing page has a dynamic map, RTVT trend chart and the RTVT summary product tables. These tables and charts can be saved on picture or pdf formats. The same items are also available on printable formats.

The map has place-marks of existing RTVT warehouses. Clicking on any of the place-marks on the map will bring a pop-up window with the real-time volumes, warehouse contact information and a link to the RTVT warehouse page. A link to a detailed RTVT map is also placed on RTVT landing page.



The RTVT trend chart is a line graph indicating the total volumes for each commodity in each of the EAC countries over a period of one month.



On its part the RTVT product table gives a snapshot of RTVT system. Each product is assigned to a tab with a list of five warehouses displayed based on the volume held and further sorted according to the product grades. These warehouses on these tables can be sorted further in an ascending or descending manner by clicking on the table headers.

PRODUCT VOLUMES

Maize **Sorghum** Wheat Rice Millet Beans

Grade 1

Warehouse	RTVT Volume(MT)	Inflow/Outflow
ADMARC Ngara	233	+233.00
Farmers World Kamwendo	-23	-23.00
KNTC Nakuru	681	+204.00
Muli Brothers-Thuchila	496	+496.00
Other Warehouses Momabasa	-82	-82.00

Grade 2

Warehouse	RTVT Volume(MT)	Inflow/Outflow
ADMARC Buli	166	+166.00
Monduli_Makuyuni	329	+329.00
National Food Reserve Agency_Manyoni	273	+273.00
NCPB Kisii	420	+420.00
Shabiby_Individual	-76	-76.00

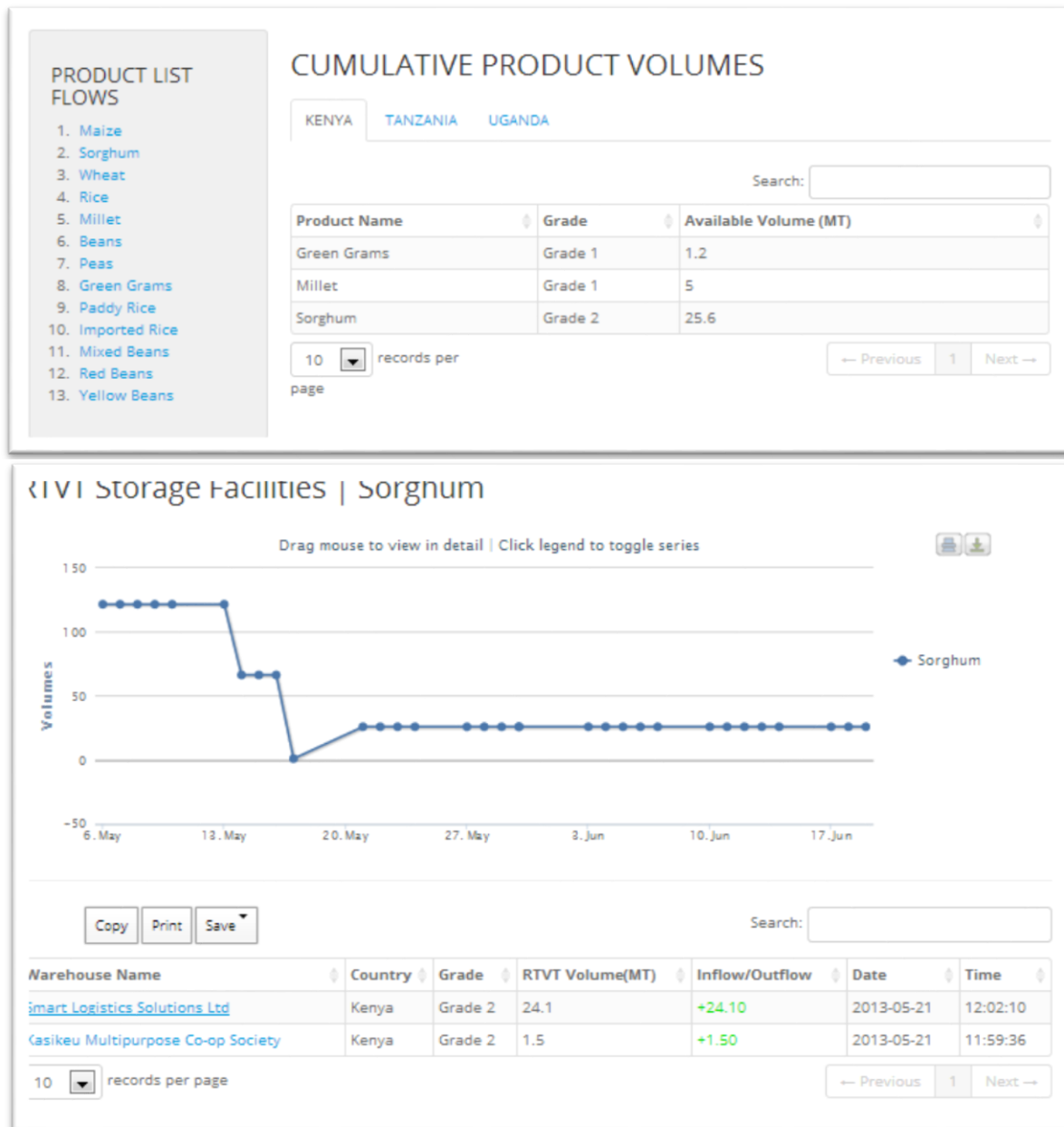
Grade 3

Warehouse	RTVT Volume(MT)	Inflow/Outflow
ADMARC Kalulu	-59	-59.00
ADMARC Nkope	495	+495.00
Asila Millers- Ogalo	-99	-99.00
Kenya Seed Company	476	+476.00
NCPB Eldoret	359	+359.00

See More

RTVT PRODUCT PAGE

The RTVT product is made up of a summary page and links to individual product chart and a table. The chart displays the real-time volumes of a given product over duration of one month.



RTVI Storage Facilities | Sorghum

Drag mouse to view in detail | Click legend to toggle series

Legend: Sorghum

Copy
Print
Save

Search:

Warehouse Name	Country	Grade	RTVT Volume(MT)	Inflow/Outflow	Date	Time
Smart Logistics Solutions Ltd	Kenya	Grade 2	24.1	+24.10	2013-05-21	12:02:10
Kasikeu Multipurpose Co-op Society	Kenya	Grade 2	1.5	+1.50	2013-05-21	11:59:36

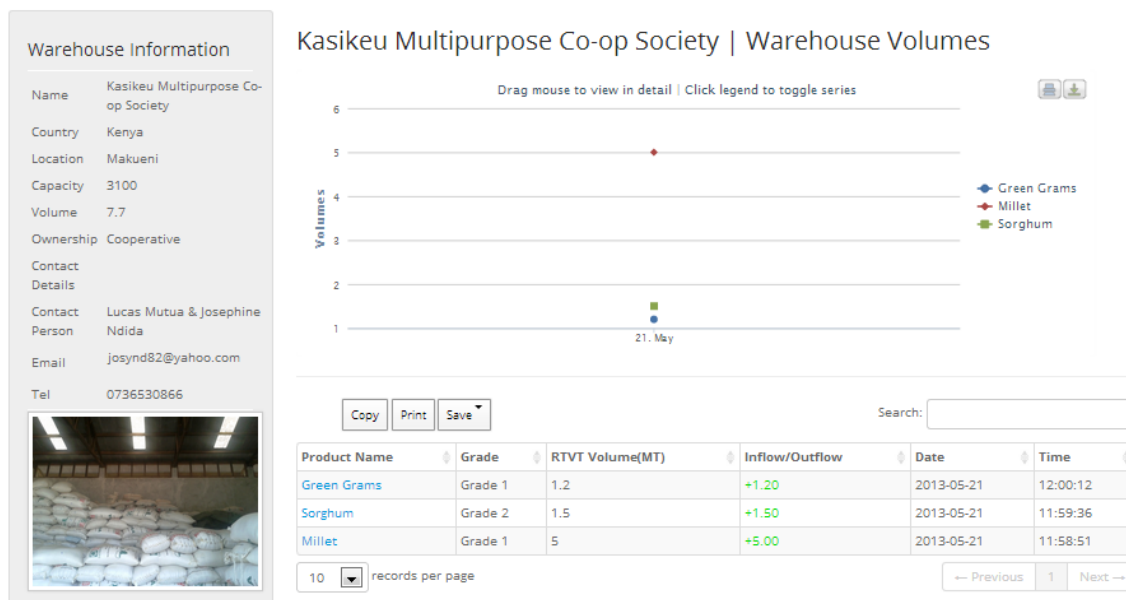
10 records per page

Previous
1
Next

The product table lists all the warehouses stocked with a given product. The table columns include names of the warehouses, real-time volumes and the most product flow date and time.

WAREHOUSE PAGE

The warehouse page has a chart of volume trend and a table of real-time volumes as well as a description of a given storage facility.



RTVT STORAGE FACILITIES LIST

This page lists all the RTVT facilities. The table items can be sorted according to their RTVT codes or storage capacities.

Warehouse Name	Country	Storage Capacity	Warehouse Code
Lesiolo Grain Handlers Ltd	Kenya	80000	RTVTKE013
Kasikeu Multipurpose Co-op Society	Kenya	3100	RTVTKE007
Smart Logistics Solutions Ltd	Kenya	6000	RTVTKE010
The Garnets	Kenya	2000	RTVTKE011
Aponye (U) Ltd. Kampala	Uganda	9000	RTVTUG001
World Food Program Gulu Purchase For Progress Warehouse	Uganda	6000	RTVTUG003
AgroWays (U) Ltd.	Uganda	8350	RTVTUG004
Export Trading Uganda (ETU)	Uganda	30000	RTVTUG005
Masindi Seed Grain Growers Association	Uganda	3000	RTVTUG006
El Shaday General Trading Company Limited	Uganda	6000	RTVTUG007

RTVT SEARCH

With the RTVT search page a user can search for RTVT facilities according to their location, products stocked and facility storage capacity in metric tons.

The search results will list warehouses matching the search criteria with real time volumes indicated on each listed facility.

Filter RTVT Storage Facilities

Product

Maize X Sorghum X

Country

KENYA X UGANDA X

Real Time Volume (MT)

0-499 MT

Start Date

2013-04-01

End Date

2013-06-21

Search

Search Results

Print CSV Excel PDF

Search:

Warehouse Name	Country	Capacity(MT)	Ownership	Products								
Aponye (U) Ltd, Kampala	Uganda	9000	Private	<table> <thead> <tr> <th>Product</th> <th>Grade</th> <th>Volume</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>Maize</td> <td>Grade 1</td> <td>55</td> <td>2013-05-21</td> </tr> </tbody> </table>	Product	Grade	Volume	Date	Maize	Grade 1	55	2013-05-21
Product	Grade	Volume	Date									
Maize	Grade 1	55	2013-05-21									
Kasikeu Multipurpose Co-op Society	Kenya	3100	Cooperative	<table> <thead> <tr> <th>Product</th> <th>Grade</th> <th>Volume</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>Sorghum</td> <td>Grade 2</td> <td>1.5</td> <td>2013-05-21</td> </tr> </tbody> </table>	Product	Grade	Volume	Date	Sorghum	Grade 2	1.5	2013-05-21
Product	Grade	Volume	Date									
Sorghum	Grade 2	1.5	2013-05-21									
Smart Logistics Solutions Ltd	Kenya	6000	Private	<table> <thead> <tr> <th>Product</th> <th>Grade</th> <th>Volume</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>Sorghum</td> <td>Grade 2</td> <td>24.1</td> <td>2013-05-21</td> </tr> </tbody> </table>	Product	Grade	Volume	Date	Sorghum	Grade 2	24.1	2013-05-21
Product	Grade	Volume	Date									
Sorghum	Grade 2	24.1	2013-05-21									

Showing 1 to 3 of 3 entries

← Previous 1 Next →

RTVT SMS

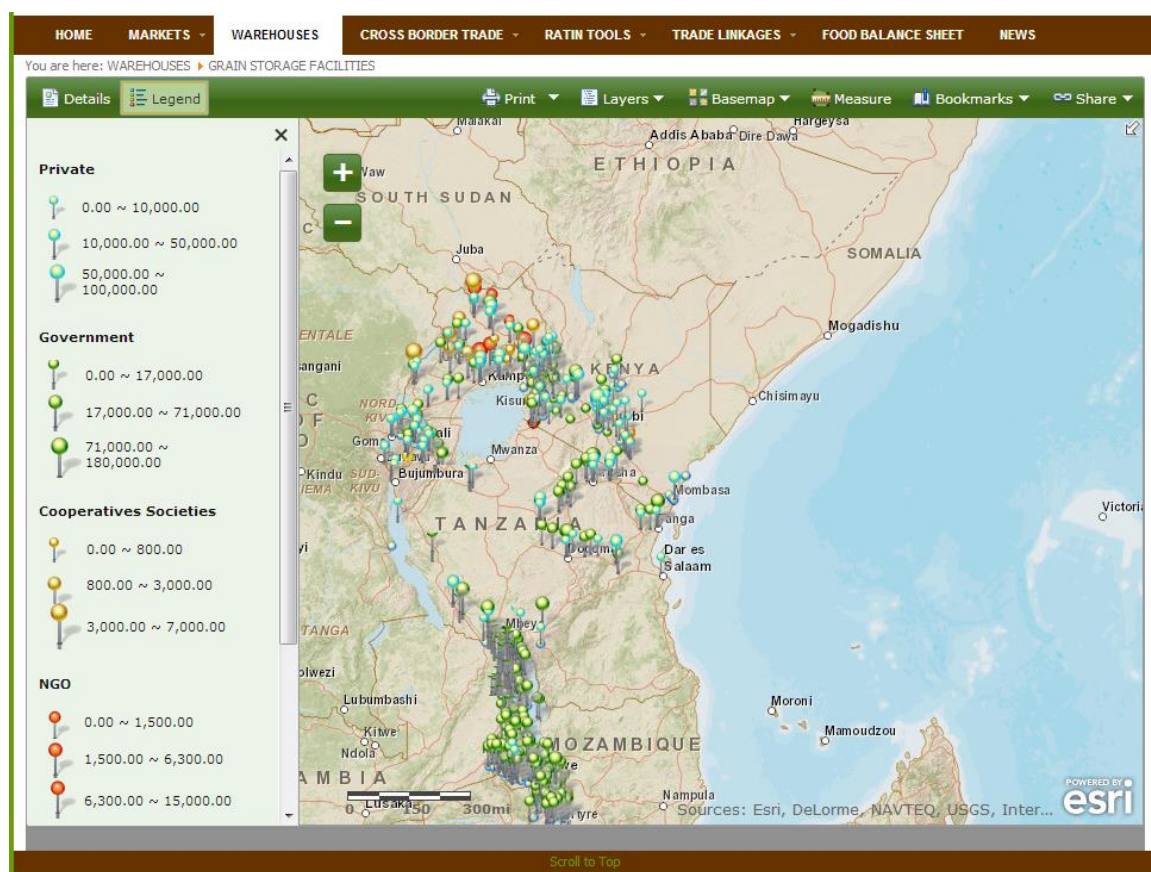
The following RTVT SMS QUERIES were created based on the suggestions of the RTVT review meeting on the 15th of January 2013.

- Sending a SMS to query the top five warehouses with a given product volume. The SMS format will be **RTVT PRODUCT** e.g. **RTVT MAIZE**
- Sending a SMS to query the top five warehouses with all product volumes combined. The SMS format will be **RTVT ALL** and receive top five warehouses.
- Sending a SMS with a storage facility code to get its contact details and the prevailing volume e.g. **RTVT KE010**

RATIN HARMONISED MAP

The harmonized map has been published in RATIN. This map derives its data from three sources; USAID Compete- Eastern Africa Corridors website, USAID Market Linkages Initiative website and USAID MLI Warehouse Mapping and Study report on Malawi.

From the original list of 742 storage facilities, the harmonized map has 710 place-marks due to the removal of duplicate and misplaced place-marks. A downloadable file with the list of these storage facilities has also been placed on the harmonized map page.



The storage facilities on the map cover the following countries: Kenya (185), Uganda (73), Tanzania (81), Malawi (310), Rwanda (51), Burundi (7) and The Democratic Republic of Congo-DRC (1).

The storage facilities are organized into five groups based on their ownership and storage capacity. The first four groups are made up of facilities whose storage capacities are known. The groups are Private, Government, Cooperatives and NGO (Non Governmental Organizations) storage facilities.

The final group named "other" is made of storage facilities whose storage capacities are missing from the source data. The storage facilities in this category are further sorted according to their ownership.

On the harmonized map, each group of these storage facilities are placed on separate layers.

A website visitor can view each or all of the storage facilities in the map by selecting/deselecting relevant map layers, the map legend presents a user with the icons used in the map.

Other harmonized map tools include map sharing, map bookmarking, distance and area measuring capabilities and map view changing through the base-maps change option.

Clicking on each of the place-mark will bring a popup screen with the following items;

- Name of storage facility,
- Total capacity,
- Ownership,
- Commodities held,
- Contact person,
- Phone #,
- Email,
- District or region,
- Facility nature & other information,
- Information source.

Private	
NAME:	CETAWICO_Hombolo
CAPACITY:	700 00
OWNERSHIP:	Private
PRODUCTS:	Maize
CONTACT PERSON:	
PHONE #:	255 784 266466
EMAIL:	
DISTRICT/REGION:	Dodoma
Facility Nature & Other Information:	Silo
INFORMATION SOURCE:	More info

CETAWICO_Hombolo

RTVT NEWSLETTER AND REPORTS

A RTVT newsletter has also been developed. The daily newsletter is automated to dispatch a summary of RTVT volumes every week on Monday morning. RTVT visitor can subscribe or unsubscribe to it at RTVT section of RATIN.

The RTVT newsletter lists the ten storage facilities based on products.

RTVT TRAINING

The training of the pilot RTVT storage facilities was conducted between 13th of March 2013 and 4th of April 2013.

The training involved the mapping of RTVT pilot grain storage facilities and practical field training of storage facilities. The warehouse operators were trained on several aspects of RTVT including:

- Basic phone operations;
- Internet and GPS activation;
- Data submission using the Adroid smart phone and the alternative website entry forms;
- Viewing RATIN and RTVT websites on the computer and on the smart phone;
- Using email on the smartphone;
- Subsription to the RTVT newsletter.

Besides the warehouse operators, EAGC's MIS officers in each of these countries partispated on the trainings and were equiped with the nessesary skills to train and offer technical support to storage facilities operators.

The training covered 19 warehouses with 32 operators trained (17 operators in 10 warehouses in Uganda, 6 operators in 4 warehouses in Kenya and 9 operators in 5 Tanzanian warehouses). The warehouse operators raised a number of concerns, these include:

- The need for training on grain standards and grades across the region.
- The possibility of using RTVT mobile application to report virtual stock or production estimate held by farmers served by the warehouses.

- Request for market prices newsletters to warehouse operators.
- A follow up training on RTVT training for warehouse operators after the pilot phase.

The following tables summarises RTVT training outcomes.

RTVT TRAINING OUTCOMES IN UGANDA

RTVT STORAGE FACILITY NAME	LOCATION	OPERATORS TRAINED	SUGGESTIONS/ OBSERVATION MADE
Export Trading Company	Kampala	1 Mahir Ramesh	ETC Manager suggested inclusion of sugar and farm inputs such as fertilizer on RTVT. Private ownership.
Aponye Kampala	Kampala	1 Juliaus Apolo	<i>Training partially done. The warehouse in Kampala will report RTVT volumes from warehouses Aponye warehouses in Jinja and Masaka.</i> Private ownership.
Agroways Uganda Limited	Junja	2 Patricia Ajwang, Betty Kigongo	Grain cleaned before grading is performed and entered into the system. Private ownership.
Upland Rice Millers	Jinja	2 Peter Bian, John Ombiah	RTVT will be updated 4 times a day at 8.30 am, 11.30 am, 2.00 pm and 5.00 pm daily Inclusion of paddy rice on RTVT suggested Private ownership.
Nyakatonzi Cooperative Union	Kasese	2 Francis Mugisha, Joshua Muhindo	NCU has two warehouses one with grain and the other one handling cotton. Warehouse owned by a cooperative society.
Elshaday General Trading Company	Kasese	1 Philip Ndugutse	The warehouse has a small milling plant. The grain on this warehouse is destined to south Sudan. Private ownership
Masindi Seed Growers	Masindi	1 Godfrey Muhingo	The warehouse operators also trained on RATIN MARKET MONITORING. The operator offered to submit grain market prices to RATIN. Private ownership.
WFP Gulu- Purchases for progress warehouse	Gulu	1 Charles Komakech	Warehouse owned by WFP operated jointly by Elshaday Ltd and Coronet Group
Kapchorwa Commercial Farmers Association	Kapchorwa	3 Romoi Peter, Chepkurui Jackson, Chebet Silvia	The most organized and most modern among the warehouses visited Mobile data network not reliable. Suggestions made for production estimate, warehouse operator can estimate the expected yield across the district at the beginning and the middle of the crop a season. Private ownership.
Farmers Centre Uganda Ltd	Lira	3 Ogwang Johnson, Acwici Susan, Ogong Felix	The grain quality on this warehouse is the best so far. Private ownership.
Sunrise Commodities	Kampala	0	A Smartphone needed for training at this store

RTVT TRAINING OUTCOMES IN KENYA

RTVT PILOT FACILITY	LOCATION	OPERATORS TRAINED	SUGGESTIONS/ OBSERVATION MADE
Kasikeu Multipurpose Co-op Society	Nairobi	2 Peter Mwanzia, P.M. Mutuku	Warehouse operator suggested additional items to be added to RTVT i.e. Cow peas, Pigeon peas, Dolichos, Green grams. Warehouse owned by a cooperative society.

Smart Logistics Solutions Ltd	Nairobi	1 Jackline Mutinda	Warehouse empty, sorghum transported directly to traders. Private ownership
Lesiolo Grain Handlers	Makueni	1 Kelvin Manyara	RTVT data for the two silos to be submitted from a single location. Operator does not object to their warehouse volumes being made public. The operator likes to post volumes once a day during the pilot phase Private ownership
The Garnets	Makueni	2 Gloria Tungu, Linda Kithuku	Training on Grading of pulses suggested Warehouse owned by a cooperative society.
Mama Millers Thika Town	Thika	Training suspended until October:	Moi's Bridge Warehouse closed at the end of grain purchase period on March. Outflows on Thika's silo are just estimates owing to a faulty outflow weight measurement device. Private ownership
Mama Millers Moi's Bridge Town	Nakuru		

RTVT TRAINING OUTCOMES IN TANZANIA

RTVT STORAGE FACILITY NAME	LOCATION	OPERATORS TRAINED	SUGGESTIONS/ OBSERVATION MADE
Gendi Rural Cooperative Society	Babati	2 Abdala Sumaye Pascali Kashmiri	Warehouse empty. Operators suggested training on grain grading. The warehouse management organized for an impromptu meeting with the Babati District Cooperatives officers who expressed interest in submitting daily market prices to RATIN in addition to promoting RTVT on other warehouses after the end of the pilot phase. Warehouse owned by a cooperative society.
Ndugati Hills	Singida	2 Paulo Mbogo, Japheth Kinkonko	Warehouse stocked with Sunflower seeds, operator suggested inclusion of Sunflower on RTVT products The operator manages several warehouses and is not stationed on any particular warehouse. Trained them on volume submission on the website Warehouse owned by a cooperative society.
Kilimo Market Ltd	Karatu	2 Mariam Abubakar, Edward Charles	RTVT needs to capture virtual stock held by farmers
Technoserve	Mbeya	1 Stephen Msigwa	Visited two warehouses, data to be submitted from one warehouse covering real-time volumes from both facilities Private ownership
Kibaigwa Panda Mbili Auction Mart Ltd	Dodoma	2 Mussa Richard Jeremiah Mtagwa	Operators suggested training on grain grading system Private ownership

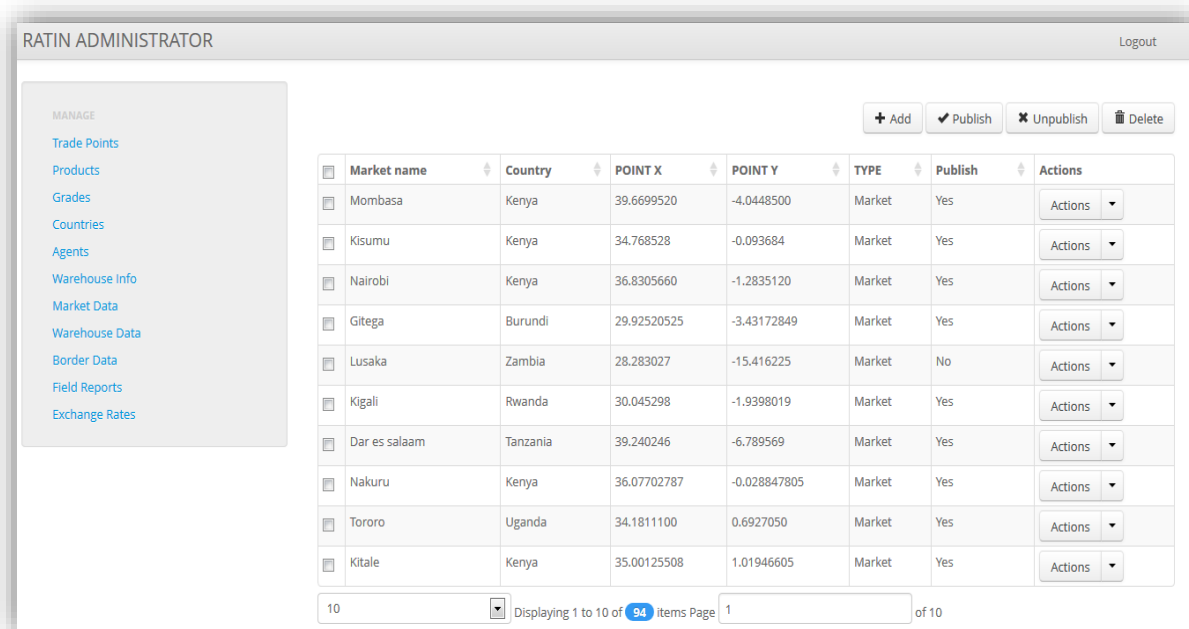
UPDATED RATIN ADMINISTRATORS DASHBOARD

The updated RATIN administrator's dashboard was created after the completion of RTVT development. The new dashboard allows easier management of data submitted by the market monitors/warehouse operators as well as allocation of operators to the markets.

Mr Erickson Oduya who handle the daily RATIN operations has been trained on using the new dashboard. To login to the updated dashboard the administrators logs in at <http://ratin.net/rtvt/admin/manage>

TRADE POINTS MANAGEMENT

Trade points refer to the names and locations of markets, borders and warehouses.



RATIN ADMINISTRATOR

Logout

MANAGE

- Trade Points
- Products
- Grades
- Countries
- Agents
- Warehouse Info
- Market Data
- Warehouse Data
- Border Data
- Field Reports
- Exchange Rates

+ Add ✓ Publish ✗ Unpublish 🗑 Delete

Market name	Country	POINT X	POINT Y	TYPE	Publish	Actions
Mombasa	Kenya	39.6699520	-4.0448500	Market	Yes	Actions
Kisumu	Kenya	34.768528	-0.093684	Market	Yes	Actions
Nairobi	Kenya	36.8305660	-1.2835120	Market	Yes	Actions
Gitega	Burundi	29.92520525	-3.43172849	Market	Yes	Actions
Lusaka	Zambia	28.283027	-15.416225	Market	No	Actions
Kigali	Rwanda	30.045298	-1.9398019	Market	Yes	Actions
Dar es salaam	Tanzania	39.240246	-6.789569	Market	Yes	Actions
Nakuru	Kenya	36.07702787	-0.028847805	Market	Yes	Actions
Tororo	Uganda	34.1811100	0.6927050	Market	Yes	Actions
Kitale	Kenya	35.00125508	1.01946605	Market	Yes	Actions

10 Displaying 1 to 10 of 94 items Page 1 of 10

With the trade points management dashboard an administrator can add, modify or delete new trade points. The trade points can also be published or unpublished; a published trade point will appear on the back end while an unpublished trade point will not be seen on the website. To add a new trade point click on the add button and fill in the descriptions of a new market. To restrict the data submissions to within a mile from the market add 0.016 for Xmax and Ymax and subtract 0.016 for Xmin and Ymin respectively.

WAREHOUSE INFORMATION MANAGEMENT

This dashboard is used to add or modify the RTVT related parameters such as warehouse capacity; warehouse ownership, operators contact information as well the upload of a warehouse picture.

<div> <div>+ Add</div> <div>🗑 Delete</div> </div>						
<input type="checkbox"/>	Warehouse Name	Capacity	Ownership	ContactPerson	Location	Actions
<input type="checkbox"/>	Lesiolo Grain Handlers Ltd	80000	Private	Kelvin Manyara	Nakuru	Actions ▾
<input type="checkbox"/>	Kenya Seeds Eldoret	7000	Government		Rift Valley	Actions ▾
<input type="checkbox"/>	Kasikeu Multipurpose Co-op Society	3100	Cooperative	Lucas Mutua & Josephine Ndida	Makueni	Actions ▾
<input type="checkbox"/>	Smart Logistics Solutions Ltd	6000	Private	Rose Mutuku/ Wilson Muchiri	Nairobi	Actions ▾
<input type="checkbox"/>	The Garnets	2000	Private	Linda Kithuku	Makueni	Actions ▾

RATIN PRODUCTS MANAGEMENT

The products information dashboard will be used to add, remove or modify the products listing in RATIN

<div> <div>+ Add</div> <div>✓ Publish</div> <div>✗ Unpublish</div> <div>🗑 Delete</div> </div>							
<input type="checkbox"/>	Product name	Product ABBRV	Category	Unit of measure	Hs code	Publish	Actions
<input type="checkbox"/>	Pegion Peas	PPS	cereals	90		No	Actions ▾
<input type="checkbox"/>	Cow Peas	CPS	cereals	90		No	Actions ▾
<input type="checkbox"/>	Beans	BNS	cereals	90		Yes	Actions ▾
<input type="checkbox"/>	Millet	MLT	cereals	90		Yes	Actions ▾
<input type="checkbox"/>	Rice	RCE	cereals	90		Yes	Actions ▾
<input type="checkbox"/>	Wheat	WHT	cereals	90	HS 1001.10.90	Yes	Actions ▾
<input type="checkbox"/>	Sorghum	SGM	cereals	90	HS 1007.00.00 [1007.00.90]	Yes	Actions ▾

RATIN GRADES MANAGEMENT

The grades management dashboard is important in setting up grade information for existing products and new products. Every time a new product is added relevant grades need to be assigned to the product.

RATIN ADMINISTRATOR Logout

MANAGE

- Trade Points
- Products
- Grades**
- Countries
- Agents
- Warehouse Info
- Market Data
- Warehouse Data
- Border Data
- Field Reports
- Exchange Rates

Grades Management Table:

<input type="checkbox"/>	Product Name	Name	Description	Actions
<input type="checkbox"/>	Maize	Grade 1	Some description	Actions
<input type="checkbox"/>	Maize	Grade 2		Actions
<input type="checkbox"/>	Maize	Grade 3		Actions
<input type="checkbox"/>	Sorghum	Grade 1		Actions
<input type="checkbox"/>	Sorghum	Grade 2		Actions
<input type="checkbox"/>	Sorghum	Grade 3		Actions
<input type="checkbox"/>	Wheat	Grade 1		Actions

Buttons: + Add, Delete

COUNTRIES MANAGEMENT

The countries dashboard is used to set up the countries and currencies used in those countries.

Countries Management Table:

<input type="checkbox"/>	Country id	Country name	Currency	Capital	Publish	Actions
<input type="checkbox"/>	BU	BURUNDI	Burundi Francs	Bujumbura	Yes	Actions
<input type="checkbox"/>	DRC	DRC	Congolese Franc	Kinshasa	Yes	Actions
<input type="checkbox"/>	KE	KENYA	KES	Nairobi	Yes	Actions
<input type="checkbox"/>	MLW	MALAWI	Kwacha	Lilongwe	Yes	Actions
<input type="checkbox"/>	RW	RWANDA	Rwanda Franc	Kigali	Yes	Actions
<input type="checkbox"/>	TZ	TANZANIA	TSH	Dar es salaam	Yes	Actions
<input type="checkbox"/>	UG	UGANDA	UGX	Kampala	Yes	Actions
<input type="checkbox"/>	ZA	Zambia	Kwacha	Lusaka	Yes	Actions

Buttons: + Add, Publish, Unpublish, Delete

Navigation: « First, « Previous, Next », »

Footer: EAGCM2010 Internet access

RATIN DATA SUBMISSION USERS MANAGEMENT

The user management dashboard is used to manage the usernames and passwords of market monitors and RTVT warehouse operators.

<div> + Add ✓ Publish ✕ Unpublish 🗑 Delete </div>						
<input type="checkbox"/>	Full name	Username	Email	Trade Point	Publish	Actions
<input type="checkbox"/>	Oduya (border)	oduyac		Nairobi(test)	Yes	Actions ▾
<input type="checkbox"/>	Moses Wanyonyi	Moses		Lwakhakha	Yes	Actions ▾
<input type="checkbox"/>	edward malaba	edward		Malaba	Yes	Actions ▾
<input type="checkbox"/>	Rugenyirange Theoneste	Theo	rugeratheo@yahoo.fr	Gatuna	Yes	Actions ▾
<input type="checkbox"/>	Lubega Ssempira	Lubega		Mutukula	Yes	Actions ▾
<input type="checkbox"/>	user Test	test5	test@ratin.com	Kigoma	Yes	Actions ▾
<input type="checkbox"/>	testuser	RTVTKE001		Pembe	Yes	<div> ✎ Edit Agent 🗑 Delete Agent </div>
<input type="checkbox"/>	testuser	RTVTKE013		Lesiolo Grain Handlers Ltd	Yes	

Through the user's management dashboard, the trade points agents can be assigned to specific trade points as well as restrictions placed on whether the RTVT warehouse operators can use the website to submit the volumes. This is done by clicking on the action link on a particular user.

Category :

Password :

Publish :

Yes ✕ ▾

Trade Point :

Pembe ✕ ▾

Web Access :

Yes ✕ ▾

Save

Save & Close

Cancel

RATIN DATA MANAGEMENT

The three sets of RATIN data are managed on three separate dashboards.

MARKET DATA MANAGEMENT

This component allows for publishing or unpublishing, addition or deletion of daily market information.

<div> + Add ✓ Publish ✗ Unpublish 🗑 Delete </div>							
<input type="checkbox"/>	Market Name	Product Name	Retail price	Wholesale price	Date	Publish	Actions
<input type="checkbox"/>	Kisumu	Beans	1.062500	1.000000	30/05/2013	No	Actions ▾
<input type="checkbox"/>	Kisumu	Millet	1.062500	1.000000	30/05/2013	No	Actions ▾
<input type="checkbox"/>	Kisumu	Rice	1.100000	1.000000	30/05/2013	No	Actions ▾
<input type="checkbox"/>	Kisumu	Sorghum	0.437500	0.387500	30/05/2013	No	Actions ▾
<input type="checkbox"/>	Kisumu	Maize	0.425000	0.387500	30/05/2013	No	Actions ▾
<input type="checkbox"/>	Kisumu	Green Grams	1.125000	1.062500	30/05/2013	No	Actions ▾
<input type="checkbox"/>	Kasese	Beans	0.900000	0.883333	30/05/2013	No	Actions ▾

BORDER DATA MANAGEMENT

This component allows for publishing or unpublishing, addition or deletion of border information.

+ Add

✓ Publish

✕ Unpublish

🗑 Delete

<input type="checkbox"/>	Border	Product Name	Volume	Source Country	Destination Country	Date	Publish	Actions
<input type="checkbox"/>	Malaba	Beans	8.28	uganda	Kenya	20/06/2013	No	Actions
<input type="checkbox"/>	Malaba	Millet	6.84	uganda	Kenya	20/06/2013	No	Actions
<input type="checkbox"/>	Malaba	Sorghum	0.18	uganda	Kenya	20/06/2013	No	Actions
<input type="checkbox"/>	Malaba	Maize	6.84	uganda	Kenya	20/06/2013	No	Actions
<input type="checkbox"/>	Busia	Maize	345	uganda	Kenya	20/06/2013	No	Actions
<input type="checkbox"/>	Busia	Beans	935	uganda	Kenya	20/06/2013	No	Actions
<input type="checkbox"/>	Busia	Millet	60	uganda	Kenya	20/06/2013	No	Actions
<input type="checkbox"/>	Busia	Sorghum	56	uganda	Kenya	20/06/2013	No	Actions
<input type="checkbox"/>	Mutukula	Beans	40	Tanzania	uganda	20/06/2013	No	Actions

WAREHOUSE DATA MANAGEMENT

This component allows for publishing or unpublishing, addition or deletion of warehouse information.

+ Add ✓ Publish ✗ Unpublish 🗑 Delete									
<input type="checkbox"/>	Warehouse	Grade	Direction	Volume	Stock	Date	Time	Publish	Actions
<input type="checkbox"/>	Aponye (U) Ltd, Kampala	Millet-Grade 1	IN	400.00	400	29/05/2013	15:30:23	Yes	Actions ▾
<input type="checkbox"/>	Aponye (U) Ltd, Kampala	Wheat-Grade 4	IN	43.00	43	29/05/2013	15:38:53	Yes	Actions ▾
<input type="checkbox"/>	Kasikeu Multipurpose Co-op Society	Sorghum-Grade 2	IN	1.50	1.5	21/05/2013	11:59:36	Yes	Actions ▾
<input type="checkbox"/>	Kasikeu Multipurpose Co-op Society	Millet-Grade 1	IN	5.00	5	21/05/2013	11:58:51	Yes	Actions ▾
<input type="checkbox"/>	Aponye (U) Ltd, Kampala	Maize-Grade 1	IN	55.00	55	21/05/2013	11:55:30	Yes	Actions ▾
<input type="checkbox"/>	Aponye (U) Ltd	Wheat-Grade	IN	450.00	450	21/05/2013	11:56:00	Yes	Actions ▾

RATIN MARKET MONITORS REPORTS

This section of administrators' dashboard has a list of reports sent by the data submission agents from their smartphones.

MANAGE					🗑 Delete
Trade Points Products Grades Countries Agents Warehouse Info Market Data Warehouse Data Border Data Field Reports Exchange Rates Market Grid SMS Subscribers					
<input type="checkbox"/>	User	Trade point	Report	Date	Actions
<input type="checkbox"/>	kimironko	Kimironko	The grain prices today in kimironko...	20/06/2013	Actions ▾
<input type="checkbox"/>	nyabugogo	Kigali	Nyabugogo price has been increased...	20/06/2013	Actions ▾
<input type="checkbox"/>	kicukiro	Kicukiro	The grain prices in kicukiro market...	20/06/2013	Actions ▾
<input type="checkbox"/>	nyabugogo	Kigali	today nyabugogo market the price...	19/06/2013	Actions ▾
<input type="checkbox"/>	kicukiro	Kicukiro	Some grain prices reduced because...	19/06/2013	Actions ▾
<input type="checkbox"/>	kimironko	Kimironko	the grain prices in Kimironko...	19/06/2013	Actions ▾
<input type="checkbox"/>	nyabugogo	Kigali	today market price increased because...	18/06/2013	Actions ▾
<input type="checkbox"/>	kimironko	Kimironko	The grain priced increased today...	18/06/2013	Actions ▾
<input type="checkbox"/>	kicukiro	Kicukiro	As the same as kimironko,in kicukiro...	18/06/2013	Actions ▾
<input type="checkbox"/>	allan	Nairobi(test)	field report	18/06/2013	Actions ▾
10 ▾ Displaying 1 to 10 of 40 items Page 1 of 4					
« First « Previous Next » Last »					

RATIN EXCHANGES RATES

On this section the exchange rates from Oanda.com are keyed into RATIN for the conversation of market prices on RATIN

							<input type="button" value="+ Add"/> <input type="button" value="✓ Publish"/> <input type="button" value="✗ Unpublish"/> <input type="button" value="🗑 Delete"/>
<input type="checkbox"/>	Kshusd	Tshusd	Ugxusd	Bifusd	Rwfusd	Date	Actions
<input type="checkbox"/>	84.2	1598	2561	1534	637.1	20/06/2013	Actions ▾
<input type="checkbox"/>	84.6	1598	2564	1533	639	19/06/2013	Actions ▾
<input type="checkbox"/>	84.2	1601	2570	1531	637.4	18/06/2013	Actions ▾
<input type="checkbox"/>	84	1599	2590	1530	637.9	17/06/2013	Actions ▾
<input type="checkbox"/>	84	1599	2568	1531	638	16/06/2013	Actions ▾
<input type="checkbox"/>	84	1600	2565	1533	637	15/06/2013	Actions ▾
<input type="checkbox"/>	84.2	1598	2556	1530	636	14/06/2013	Actions ▾
<input type="checkbox"/>	83.8	1597	2550	1521	635	13/06/2013	Actions ▾

RATIN DATA ENTRY GRID

The RATIN data entry grid is used to enter multiple prices for markets that are not covered by market monitors.

Maize	Sorghum	Wheat	Rice	Millet	Beans	Peas	Green Grams	Paddy Rice	Imported Rice	Mixed Beans	Red Beans	Yellow Beans
Maize												
Country - BURUNDI		Retail Price					WholeSale Price					
Gitega		<input type="text"/>					<input type="text"/>					
Ngozi		<input type="text"/>					<input type="text"/>					
Bujumbura		<input type="text"/>					<input type="text"/>					
Kayanza		<input type="text"/>					<input type="text"/>					
Country - KENYA		Retail Price					WholeSale Price					
Mombasa		<input type="text"/>					<input type="text"/>					
Kisumu		<input type="text"/>					<input type="text"/>					
Nairobi		<input type="text"/>					<input type="text"/>					

RTVT DATA SHARING WEBSERVICE

A data sharing web service was added to RTVT to allow the distribution of data to regional food balance sheet or any other web application or website. Consuming a web service requires an end user to be at least proficient in some web development.

The web service that is currently running can integrate with the RTVT and a developer can pull

- Daily Warehouse Volumes similar to the scrolling feed on RTVT - the data can be pulled via JSON and XML e.g ratin.net/rtvt/api/rest/daily.json or daily.xml
- Warehouse Search
 - [ratin.net/rtvt/api/rest/search.json?country\[\]=Kenya&product\[\]=Sorghum&capacity=900](http://ratin.net/rtvt/api/rest/search.json?country[]=Kenya&product[]=Sorghum&capacity=900)
- The above service can be pulled by means of any server side language e.g PHP or client script language e.g JavaScript, Google consuming web services will give a lot of tips on how to do this.
- The .json / .xml specifies that data to be received should be in that format
- The search service allows for some parameters e.g country, product and capacity. product and country can be passed as an array .

APPENDIX

A: RATIN HARMONISED MAP WAREHOUSE LIST

NAME	CAPACITY	OWNERSHIP	COUNTRY
Nyamunga Millers		Private	Kenya
Ahero Private Millers- O. Odongo		Private	Kenya
Asila Millers- Ogalo		Private	Kenya
Bungoma Chemist	360	Private	Kenya
Mt. Elgon Farmers - Chwele	450	Private	Kenya
Unga Ltd		Private	Kenya
KESSES		Private	Kenya
RUPA		Private	Kenya
Corn products		Private	Kenya
Premier Commodities	20000	Private	Uganda
Chamar EnterprisesLtd	57	Private	Kenya
Aponye (U) Ltd, Kampala	9000	Private	Uganda
Kapenguria Mill & Store		Private	Kenya
Steve		Private	Kenya
Kampala-Nalukolongo	22000	Private	Uganda
Kianjai Huruma Stores/Lubirui Grain Stores		Private	Kenya
Kiganjo Railway station		Private	Kenya
Angatabargoi	180	Private	Kenya
United Millers		Private	Kenya
United Millers- Airport		Private	Kenya
Commercial Grain Services ltd	50000	Private	Kenya
Western Seed Co.		Private	Kenya
WFP Kampala-Nalukolongo	15000	NGO	Uganda
Agro-business - Navakholo	1	Private	Kenya
Soy Acres Store - Soy	180	Private	Kenya
Kathonzweni district		Private	Kenya
Other Warehouses		Private	Kenya
Other stores in Meru-Njeru		Private	Kenya
Afya Millers		Private	Kenya
Farm Kib Center - Kibiricha	405	Private	Kenya
Moi Bridge Millers	4500	Private	Kenya
United Millers- Mois Bridge		Private	Kenya
Capital Feeds		Private	Kenya
KFA Molo, KBL, NCPB	14	Private	Kenya
Keiyan	90	Private	Kenya
Cargill		Private	Kenya
Coast Silos		Private	Kenya

Mombasa Bulk Grain Handlers		Private	Kenya
TSS Grain Millers		Private	Kenya
Mombasa Maize Millers (MMM)		Private	Kenya
Mombasa Private Stores		Private	Kenya
Kenya Breweries Mombasa		Private	Kenya
Kipkaren Agrovet - Kipkaren	432	Private	Kenya
Lugari Stores - Lugari Station	1512	Private	Kenya
PSU Kilgoris		Private	Kenya
NCPB Kilgoris	500	Government	Kenya
Other stores3		Private	Kenya
Sunrise Chemist - Kapsokwony	450	Private	Kenya
Mwea Private stores		Private	Kenya
CIMBRIA		Private	Kenya
PSU Kitale		Private	Kenya
Pembe	10000	Private	Kenya
Unga Ltd (Stores)	5000	Private	Kenya
PSU	27000	Private	Kenya
Unga Ltd		Private	Kenya
EHG		Private	Kenya
Homegrown		Private	Kenya
Unga Ltd Nutrition Plant		Private	Kenya
Lesiolo	19000	Private	Kenya
Nanyuki Grain Millers		Private	Kenya
Private stores		Private	Kenya
OLERA Farm	7500	Private	Kenya
SauPau Talent Farm	4500	Private	Kenya
Maisha Millers		Private	Kenya
Njoro Amani Millers		Private	Kenya
Mastermind		Private	Kenya
El Shaddai Cereal Stores/ Emmanuel stores		Private	Kenya
Charagita Agrovet - Kangui	90	Private	Kenya
Rils farm - Oyugis	630	Private	Kenya
Ruiru Feeds Limited		Private	Kenya
KFA Kitale		Government	Kenya
Wind Mills Fertilizer		Private	Kenya
Dominion		Private	Kenya
Marenyo Community Cereal Bank - Sagam	1512	Private	Kenya
Sotik Women Group		Private	Kenya
Chania Millers		Private	Kenya
Kenblest millers		Private	Kenya
Bakex Millers	10000	Private	Kenya

Brock/ Capwell industries	12000	Private	Kenya
Romosha satellite store	180	Private	Kenya
PSU Eldoret		Private	Kenya
NCPB Eldoret	43	Government	Kenya
Fida Hussein	800	Private	Tanzania
Voi Private Stores		Private	Kenya
United Millers Webuye		Private	Kenya
NCPB Kiganjo	500	Government	Kenya
NCPB Depot Maragua	500	Government	Kenya
KPCU Sagana		Government	Kenya
NCPB Sagana		Government	Kenya
Sagana Railways		Government	Kenya
Voi NCPB		Government	Kenya
NCPB Isiolo	500	Government	Kenya
National Cereals Board Machakos	500	Government	Kenya
KARI Katumani		Government	Kenya
Mwea NIB		Government	Kenya
NCPB stores		Government	Kenya
NCPB Headquarters	22000	Government	Kenya
NIB Ahero	800	Government	Kenya
NCPB Awendo	500	Government	Kenya
NCPB Bondo	500	Government	Kenya
NCPB Homa Bay	500	Government	Kenya
NCPB Kendu Bay		Government	Kenya
Railway Kibos		Government	Kenya
NCPB Kisii	500	Government	Kenya
Kisumu Lake Basin Dev Authority	2160	Government	Kenya
Railways		Government	Kenya
NCPB Kisumu		Government	Kenya
NCPB Migori	500	Government	Kenya
NCPB Muhoroni	500	Government	Kenya
NCPB Yala	9000	Government	Kenya
NCPB Bomet		Government	Kenya
Kenya seeds Eldoret		Government	Kenya
National Food Reserve Agency_Dodoma	30000	Government	Tanzania
KFA Eldoret		Government	Kenya
KFA Nakuru		Government	Kenya
NCPB Kapenguria		Government	Kenya
NCPB Kedowa		Government	Kenya
NCPB Kehancha		Government	Kenya
NCPB Kericho New	500	Government	Kenya

NCPB Kerich Old		Government	Kenya
Kenya Seed		Government	Kenya
NCPB Naivasha		Government	Kenya
Naivasha Railways		Government	Kenya
Kenya Seed Company	17000	Government	Kenya
KFA Mois Bridge		Government	Kenya
NCPB Mois Bridge		Government	Kenya
Export Trading Company	100000	Private	Kenya
KNTC Nakuru	270	Government	Kenya
NCPB Nakuru Old	27000	Government	Kenya
NCPB Nakuru New	61000	Government	Kenya
KFA Nakuru		Government	Kenya
KFA Narok		Government	Kenya
NCPB Narok		Government	Kenya
NCPB Sotik		Government	Kenya
Bungoma NCPB	24	Government	Kenya
Kenya Agricultural Commodity Exchange		Government	Kenya
Railways Bungoma		Government	Kenya
KFA Kakamega		Government	Kenya
Kenya Seeds Kakamega		Government	Kenya
NCPB Kakamega	500	Government	Kenya
Railways/NCPB Malaba		Government	Kenya
NCPB Malava		Government	Kenya
NCPB Webuye	15000	Government	Kenya
Kiwanda cha Mkonge	2500	Private	Tanzania
Gwitiryo Store	400	Government	Tanzania
Sirari Store	400	Government	Tanzania
Mara Coop	1000	Cooperative	Tanzania
DASIP Nyakahura	400	Government	Tanzania
DASIP Mihongora	400	Government	Tanzania
DASIP Kasato	400	Government	Tanzania
DASIP Ntumagu	400	Government	Tanzania
RUMACU Cooperative	2592	Private	Tanzania
DASIP Wendele	400	Government	Tanzania
Ngogwa	1000	Government	Tanzania
Ntobo AMCS	700	Private	Tanzania
Export Trading company_Arusha	18000	Private	Tanzania
JAMAHEDO HEALTH FOOD COMPANY	1000	Private	Tanzania
Ken Millers	700	Private	Tanzania
Meserani_Monduli	400	Government	Tanzania
Monduli_Makuyuni	400	Government	Tanzania

Monduli_mjini_AMSDP	550	Government	Tanzania
National Food Reserve Agency_Arusha	36000	Government	Tanzania
National Milling Company_Arusha	58000	Government	Tanzania
SiNoi_Monduli_Mjini	400	Government	Tanzania
CETAWICO_Hombolo	700	Private	Tanzania
Salama Maize Millers Karatina		Private	Kenya
Kongwa_Busstand	1000	Government	Tanzania
Other		Private	Kenya
National Milling Company_Dodoma	30000	Government	Tanzania
Ugogoni_Kongwa	400	Government	Tanzania
Bins-moshi	1500	Government	Tanzania
HARSHO Trading Company	450	Private	Tanzania
KNCU_Victoria church	800	Private	Tanzania
Mohamed enterprises_Moshi	20000	Private	Tanzania
Silayo_Union Service Stores	563	Private	Tanzania
Tarakea Rural Cooperatives Society	800	Government	Tanzania
Banshangii Village_Hanang	400	Government	Tanzania
Export Trading company_Babati	10000	Government	Tanzania
Masakta SACCOS	400	Government	Tanzania
Memire SACCOS_Babati	400	Government	Tanzania
MEQBAMI SACCOS	400	Government	Tanzania
Mshikamano SACCOS	455	Government	Tanzania
Nagwa Village	500	Government	Tanzania
Individual_farmer_Dakawa	405	Private	Tanzania
Local famers Association_MVIWATA	7875	Government	Tanzania
Shabiby_Indivisual	600	Private	Tanzania
Sokoine university of Agriculture	1050	Government	Tanzania
Sokoine university of Agriculture	900	Government	Tanzania
Tan Mills_Quality group_Dakawa	15000	Private	Tanzania
Wami Luhindo Farm	15000	Private	Tanzania
Individual_farmer	450	Private	Tanzania
Kintinku_Ward SACCOS	400	Government	Tanzania
Kintinku_Ward SACCOS_RLDC	400	Government	Tanzania
Mohamed Enterprises_NMC_Singida	4000	Government	Tanzania
Mount Meru Millers_Singida	25000	Private	Tanzania
Mwenge Sunflower Oil Millers	500	Private	Tanzania
National Food Reserve Agency_Manyoni	4500	Government	Tanzania
SIDO	700	Government	Tanzania
Singida Fresh Oil_Kwa_shuru	500	Private	Tanzania
Aglican Diocese of Tanga_NMC	10000	Private	Tanzania
Government Procurement and Supply Agent	34000	Government	Tanzania

Korogwe_District_Ujenzi	1000	Government	Tanzania
Muheza District Council_Lusanga	400	Government	Tanzania
Pembe Flour Mill	10000	Private	Tanzania
Tanzania Coffee board	35000	Government	Tanzania
IRINGA NMC-COPB	22400	Government	Tanzania
MAKAMBAKO NFRA IRINGA	22000	Government	Tanzania
NJOLUMA COOPERATIVE	1200	Private	Tanzania
NJOMBE PYRETHRUM PROCESSING AND MARKETING CO		Cooperative	Tanzania
EXPORT TRADING COMPANY		Private	Tanzania
USANGU FARMERS COOPERATIVE SOCIETY	2000	Private	Tanzania
Mohammed Entrepise Co Mbeya		Private	Tanzania
TFA Mbeya		Cooperative	Tanzania
GDM 1 CO. LTD	200	Private	Tanzania
GDM 2 CO. LTD	1350	Private	Tanzania
MBEYA COOPERATIVE		Cooperative	Tanzania
SGR/NFRA VWAWA	20000	Government	Tanzania
SHIWANDA MILLS	800	Private	Tanzania
TUNDUMA		Private	Tanzania
NFRA RUKWA (LAHELA)	5000	Government	Tanzania
RUKWA (SUMBAWANGA) NFRA	30000	Government	Tanzania
IKUWO GENERAL ENTREPRISE	20000	Private	Tanzania
ENERGY MILLING COMPANY	17500	Private	Tanzania
NFRA MPANDA RUKWA	5500	Government	Tanzania
INDAKUKI Cooperative	500	Private	Rwanda
PRODEV	5000	Private	Rwanda
RWAMAGANA RICE	4500	Private	Rwanda
MINAGRI	20000	Government	Rwanda
MINAGRI	3000	Government	Rwanda
ENAS	16000	Private	Rwanda
MAGERWA	200	Government	Rwanda
ENAS	8000	Private	Rwanda
MINAGRI	3000	Government	Rwanda
MINAGRI	8000	Government	Rwanda
Miserie de Mukamira S.A.R.L	5000	Private	Rwanda
PEMBE Rwanda S.A.R.L	11000	Private	Rwanda
JENDA Store MINAGRI	8000	Private	Rwanda
Bralirwa ltd/Gisenyi Plant	6480	Private	Rwanda
MINAGRI(OPROVIA)	15000	Government	Rwanda
SOSOMA Industries s.a	1300	Private	Rwanda
SOPAB	3500	Private	Rwanda

SOPAV Sarl	600	Private	Rwanda
SOTIRU Ltd	6200	Private	Rwanda
IHOGOZA	580	Private	Rwanda
COAMV	600	Private	Rwanda
CARITAS Ruhengeri	5600	Private	Rwanda
NYUNDO MAIZE CAMPANY	1700	Private	Rwanda
Rwanda Agricultural Board(RAB)	1820	Government	Rwanda
World Food Programme	10000	Private	Rwanda
Kivu Maize Factory	720	Private	Rwanda
MINAGRI/RADA	5000	Government	Rwanda
MINAGRI/RADA	30000	Government	Rwanda
Ntyazo sector	500	Government	Rwanda
Gikonko Rice	900	Private	Rwanda
Bugarama Rice	1000	Private	Rwanda
SODAR	2000	Private	Rwanda
COTCORI Cooperative	500	Private	Rwanda
WFP Gulu	6000	NGO	Uganda
Lira	71000	Government	Uganda
WFP Soroti	1500	NGO	Uganda
Kumi	1000	Government	Uganda
WFP Kayunga-Ndeese	3000	NGO	Uganda
WFP Tororo	15000	NGO	Uganda
Busia	1000	Government	Uganda
Jinja	14500	Government	Uganda
Kampala-East	10000	Government	Uganda
Kampala-Kawempe	10000	Government	Uganda
Other Warehouses		Private	Kenya
Kyazanga	5000	Government	Uganda
Masaka	1500	Government	Uganda
Mpigi	1500	Government	Uganda
Kasese	10500	Government	Uganda
Kibaale	2000	Government	Uganda
Kiboga	12000	Government	Uganda
Masindi	6000	Government	Uganda
ADMARC Magwelo	600	Government	Malawi
ADMARC Kamphoni	25	Government	Malawi
ADMARC Kulima	750	Government	Malawi
ADMARC Dickson	600	Government	Malawi
ADMARC Sinyala	2000	Government	Malawi
ADMARC Phililanjuzi	600	Government	Malawi
ADMARC Lumbadzi	2000	Government	Malawi

ADMARC Balang'ombe	500	Government	Malawi
ADMARC Chikweo	250	Government	Malawi
ADMARC Mlomba	1200	Government	Malawi
ADMARC Ntaja	250	Government	Malawi
ADMARC Mangochi	250	Government	Malawi
ADMARC Lulanga	250	Government	Malawi
Makanjila	250	Government	Malawi
ADMARC Malembo	250	Government	Malawi
ADMARC Masi	250	Government	Malawi
ADMARC Namwera	800	Government	Malawi
ADMARC Nankhwali	250	Government	Malawi
ADMARC Nkope	250	Government	Malawi
ADMARC Mthiramanja	250	Government	Malawi
ADMARC Monkey Bay	4000	Government	Malawi
ADMARC Kalulu	1000	Government	Malawi
ADMARC Tembwe	1500	Government	Malawi
ADMARC Mthawira	300	Government	Malawi
ADMARC Nkhwazi	1500	Government	Malawi
ADMARC Mchemani	300	Government	Malawi
ADMARC Mwenda	300	Government	Malawi
Louis Dreyfus Commodities		Private	Kenya
ADMARC Kabila	300	Government	Malawi
ADMARC Kangwere	300	Government	Malawi
ADMARC Namulenga	700	Government	Malawi
ADMARC Ligowe	250	Government	Malawi
ADMARC Lisungwi	250	Government	Malawi
ADMARC Mwanza		Government	Malawi
ADMARC Thambani	250	Government	Malawi
ADMARC Neno	450	Government	Malawi
ADMARC Mzimba	2200	Government	Malawi
ADMARC Champhira	200	Government	Malawi
ADMARC Euthini	250	Government	Malawi
ADMARC Eswazini	250	Government	Malawi
Capital Reef	20000	Private	Kenya
MALIDADE	200	Government	Malawi
ADMARC Madede	200	Government	Malawi
ADMARC Mqocha	200	Government	Malawi
ADMARC KHOSOLO	200	Government	Malawi
ADMARC Mjinge	200	Government	Malawi
ADMARC ENUKWENI	250	Government	Malawi
ADMARC Santhe	2000	Government	Malawi

Farmers World Santhe		Private	Malawi
ADMARC Mzenga	250	Government	Malawi
ADMARC KAMCHOCHO	200	Government	Malawi
ADMARC Benga	1500	Government	Malawi
ADMARC KAPIRI 2	220	Government	Malawi
ADMARC NKHUNGA	1350	Government	Malawi
ADMARC MSENJERE	550	Government	Malawi
ADMARC MWALAWATONGOLE	500	Government	Malawi
ADMARC Malembo	700	Government	Malawi
ADMARC Mlomba	2000	Government	Malawi
ADMARC NSANJE	150	Government	Malawi
ADMARC Chigumukire	250	Government	Malawi
ADMARC KAMBILONJO	250	Government	Malawi
ADMARC KANDEU	250	Government	Malawi
ADMARC KASINJE	250	Government	Malawi
ADMARC LIZULU	250	Government	Malawi
Farmers World Manyamula		Private	Malawi
ADMARC TSANGANO	250	Government	Malawi
ADMARC NTCHISI	2500	Government	Malawi
ADMARC CHINTHEMBWE	500	Government	Malawi
ADMARC MAMINA	1500	Government	Malawi
ADMARC MSUMBA	500	Government	Malawi
ADMARC MBOMBA	3000	Government	Malawi
ADMARC KADANSANA	500	Government	Malawi
ADMARC PHALOMBE	700	Government	Malawi
ADMARC KASONGO	200	Government	Malawi
ADMARC MPINDA	200	Government	Malawi
ADMARC NKHULAMBE	200	Government	Malawi
ADMARC KALINDE	500	Government	Malawi
ADMARC TAMANI	200	Government	Malawi
ADMARC WARUMA	200	Government	Malawi
ADMARC BOLERO	250	Government	Malawi
ADMARC MWAZISI	250	Government	Malawi
ADMARC HEWE	100	Government	Malawi
ADMARC NGONGA	250	Government	Malawi
ADMARC NCHENACHENA	250	Government	Malawi
ADMARC LIVINGSTONIA	250	Government	Malawi
Farmers World Bulala		Private	Malawi
ADMARC NTONGA	200	Government	Malawi
ADMARC CHIKOMBE	640	Government	Malawi
ADMARC PEMBA	200	Government	Malawi

ADMARC CHINGULUWE	1080	Government	Malawi
ADMARC Dzongwe	500	Government	Malawi
ADMARC MAKIONI	400	Government	Malawi
ADMARC Kamuona	200	Government	Malawi
ADMARC Chaone	250	Government	Malawi
Farmers World Mzimba_Boma		Private	Malawi
ADMARC Molele	250	Government	Malawi
ADMARC ZOMBA	800	Government	Malawi
ADMARC CHINGALE	250	Government	Malawi
ADMARC LIKANGALA	300	Government	Malawi
ADMARC MALOSA	800	Government	Malawi
ADMARC MAYAKA	600	Government	Malawi
ADMARC CHOKOMWE	250	Government	Malawi
NFRA Bangula	6000	Government	Malawi
NFRA Mangochi silos	20000	Government	Malawi
NFRA Limbe transit	40000	Government	Malawi
NFRA Alimaunde	48000	Government	Malawi
NFRA Kanengo silos	180000	Government	Malawi
NFRA Kazomba	6000	Government	Malawi
NFRA Mzuzu	2000	Government	Malawi
AGORA Chiradzulu		Private	Malawi
AGORA Nsamala		Private	Malawi
AGORA Kalonjere		Private	Malawi
ADMARC Balaka	450	Government	Malawi
ADMARC Chilipa	600	Government	Malawi
ADMARC Chiona	250	Government	Malawi
ADMARC Chanthunya	250	Government	Malawi
ADMARC Manjawila		Government	Malawi
ADMARC Mpilisi	250	Government	Malawi
ADMARC Senzani	250	Government	Malawi
ADMARC Chilomoni	250	Government	Malawi
ADMARC Lirangwe	250	Government	Malawi
ADMARC Matindi	700	Government	Malawi
ADMARC Mdeka	250	Government	Malawi
ADMARC Ndirande	250	Government	Malawi
ADMARC Zingwangwa	250	Government	Malawi
ADMARC Midima	2500	Government	Malawi
ADMARC Chidzimbi	250	Government	Malawi
ADMARC Phwazi	250	Government	Malawi
ADMARC Chimphanga	250	Government	Malawi
ADMARC Kakoma	150	Government	Malawi

ADMARC Kalambo	800	Government	Malawi
ADMARC Masenjere	250	Government	Malawi
ADMARC Livunzu	150	Government	Malawi
ADMARC Makande 2	400	Government	Malawi
ADMARC Mapelera	250	Government	Malawi
ADMARC Mbewe	150	Government	Malawi
ADMARC Chikwawa	500	Government	Malawi
ADMARC Nchalo	1000	Government	Malawi
ADMARC Nkhate	250	Government	Malawi
ADMARC Mbulumbudzi	250	Government	Malawi
ADMARC Thumbwe	250	Government	Malawi
ADMARC Sedi	250	Government	Malawi
ADMARC Chitipa	1100	Government	Malawi
ADMARC Wenya	200	Government	Malawi
ADMARC Kameme	200	Government	Malawi
ADMARC Nthalire	450	Government	Malawi
ADMARC Mahowe	250	Government	Malawi
ADMARC Chisenga	250	Government	Malawi
ADMARC Lufita	250	Government	Malawi
ADMARC Therere	250	Government	Malawi
ADMARC Mwankumbwa	600	Government	Malawi
ADMARC Mlunduni	300	Government	Malawi
ADMARC Mayani	900	Government	Malawi
ADMARC Kaphuka	450	Government	Malawi
ADMARC Bemneke	600	Government	Malawi
ADMARC Lifidzi	1500	Government	Malawi
ADMARC Namakasu	600	Government	Malawi
ADMARC Kapiri	400	Government	Malawi
ADMARC Golomoti	4700	Government	Malawi
ADMARC Mponela	3000	Government	Malawi
ADMARC Nachisaka	1000	Government	Malawi
ADMARC Mwangala	500	Government	Malawi
ADMARC Chezi	1000	Government	Malawi
ADMARC Pembasaka (Kachigamba)	500	Government	Malawi
ADMARC Madisi		Government	Malawi
ADMARC Kalonga		Government	Malawi
Farmers World Champhira		Private	Malawi
ADMARC Lipili	300	Government	Malawi
ADMARC Mtengowathenga		Government	Malawi
ADMARC Nambuma		Government	Malawi
ADMARC Chisepo		Government	Malawi

ADMARC Kasuntha	750	Government	Malawi
ADMARC Nalunga	500	Government	Malawi
ADMARC Mvera	500	Government	Malawi
Farmers World Mtema		Private	Malawi
ADMARC Mwenewisi	250	Government	Malawi
ADMARC Mpata	250	Government	Malawi
ADMARC Ndembwera	200	Government	Malawi
ADMARC Karonga	1000	Government	Malawi
ADMARC Ngara	800	Government	Malawi
ADMARC Wovwe	350	Government	Malawi
ADMARC Lufira	500	Government	Malawi
ADMARC Kaporo	1000	Government	Malawi
ADMARC Phapa	200	Government	Malawi
ADMARC Hara	250	Government	Malawi
ADMARC Kasungu	250	Government	Malawi
ADMARC Kalulluma	500	Government	Malawi
ADMARC Chulu	1000	Government	Malawi
ADMARC Chatoloma	2500	Government	Malawi
ADMARC Ukwe	600	Government	Malawi
ADMARC Chamama	2500	Government	Malawi
ADMARC Kapalamila	500	Government	Malawi
ADMARC Mtandila	500	Government	Malawi
ADMARC Likoma	250	Government	Malawi
ADMARC Chizumulu	250	Government	Malawi
ADMARC Chileka	2000	Government	Malawi
ADMARC Chilaza	700	Government	Malawi
ADMARC Mng'ongo	300	Government	Malawi
ADMARC Mawelo	300	Government	Malawi
ADMARC Nyanja	750	Government	Malawi
ADMARC Nsaru	2000	Government	Malawi
ADMARC Nsanama	2000	Government	Malawi
ADMARC Mpingu	1500	Government	Malawi
ADMARC Chipukwa	750	Government	Malawi
ADMARC Demela	300	Government	Malawi
ADMARC Ng'ombe	300	Government	Malawi
ADMARC Kasiya	2000	Government	Malawi
ADMARC Chikowa	300	Government	Malawi
ADMARC Mbalame	300	Government	Malawi
ADMARC Nthondoi	1000	Government	Malawi
ADMARC Ngwangwa	2000	Government	Malawi
ADMARC Chitipi	300	Government	Malawi

ADMARC Buli	300	Government	Malawi
Farmers World Mabulawo		Private	Malawi
ADMARC Thumbwe	600	Government	Malawi
ADMARC Chitsime	300	Government	Malawi
Farmers World Kafukule_Trading		Private	Malawi
ADMARC Chiputu	600	Government	Malawi
ADMARC Chitekwere	900	Government	Malawi
ADMARC Mkwinda	2000	Government	Malawi
ADMARC Mitundu	450	Government	Malawi
ADMARC Mpemba	600	Government	Malawi
ADMARC Msonzi	300	Government	Malawi
Farmers World Luwelezi		Private	Malawi
ADMARC Matapila	300	Government	Malawi
AGORA Ntaja		Private	Malawi
ADMARC Mbalame	300	Government	Malawi
AGORA Phalombe Boma		Private	Malawi
AGORA Muloza		Private	Malawi
AGORA Kandeu		Private	Malawi
AGORA Sharpe_Valley		Private	Malawi
AGORA Chilema		Private	Malawi
AGORA Thondwe		Private	Malawi
AGORA Zomba_Depot		Private	Malawi
AGORA Mayaka_Depot		Private	Malawi
AGORA Limbe_depot		Private	Malawi
ADMARC Chiwenga	300	Government	Malawi
AGORA Neno		Private	Malawi
Farmers World Mponela		Private	Malawi
AGORA Ncheu Boma		Private	Malawi
Farmers World Mwabulambya		Private	Malawi
Tsaiwale Variety Centre Mponela	20	Private	Malawi
Farmers World Dedza_Boma		Private	Malawi
Farmers World mayani_Trading		Private	Malawi
Farmers World Thete		Private	Malawi
Farmers World Chisepo		Private	Malawi
ADMARC RUMPHI	250	Government	Malawi
Farmers World Mponela		Private	Malawi
Farmers World chakhaza		Private	Malawi
Farmers World Madisi		Private	Malawi
Farmers World Lumbadzi		Private	Malawi
Farmers World Dowa_Boma		Private	Malawi
Farmers World Nkhamenya		Private	Malawi

Farmers World Khato		Private	Malawi
Farmers World Chulu		Private	Malawi
Farmers World Wimbe		Private	Malawi
Farmers World Kasungu_Boma		Private	Malawi
Farmers World Chikulamayembe		Private	Malawi
Farmers World Masula		Private	Malawi
Farmers World Masumbankhunda		Private	Malawi
Farmers World Kalolo		Private	Malawi
Farmers World Kabudula		Private	Malawi
Farmers World Khongoni		Private	Malawi
Farmers World Kanengo_Industrial_area		Private	Malawi
Farmers World Bwalolanjobvu		Private	Malawi
Farmers World Area_4		Private	Malawi
Farmers World Nambuma		Private	Malawi
Farmers World Ntandira		Private	Malawi
Farmers World Jambalo		Private	Malawi
Farmers World Mchinji_Boma		Private	Malawi
Farmers World Mkanda		Private	Malawi
Farmers World Nthema		Private	Malawi
Farmers World Kamwendo		Private	Malawi
Farmers World Mtwalo		Private	Malawi
Farmers World Erukweni_Trading		Private	Malawi
ADMARC Nathenje	3500	Government	Malawi
ADMARC Mlodzenzi	600	Government	Malawi
ADMARC Mikundi	1000	Government	Malawi
ADMARC LIMPHASA	250	Government	Malawi
ADMARC NKHOTAKOTA	1850	Government	Malawi
ADMARC KHOMBEDZA	1700	Government	Malawi
Farmers World Mkumbira		Private	Malawi
ADMARC NKHATABAY	250	Government	Malawi
ADMARC Mtakataka	1800	Government	Malawi
AGORA Mwanza		Private	Malawi
Farmers World Mtakataka		Private	Malawi
ADMARC NSIPE	500	Government	Malawi
AGORA Nsipe		Private	Malawi
ADMARC Luchenza	1200	Government	Malawi
NFRA Luchenza	20000	Government	Malawi
Farmers World Kanyenda		Private	Malawi
Farmers World Malengachanzi		Private	Malawi
Farmers World Lizulu		Private	Malawi
Farmers World Chilowoko		Private	Malawi

Farmers World Katumbi		Private	Malawi
Farmers World Kalonga		Private	Malawi
Sakata Trading Lumbadzi	8	Private	Malawi
AGORA Nselema		Private	Malawi
ADMARC MAGOTI	250	Government	Malawi
ADMARC BANGULA	5000	Government	Malawi
Sunrise Commodities & Millers Ltd	12000	Private	Uganda
Afro-Kai Limited	900	Private	Uganda
MAGANJO GRAIN MILLERS LTD	1100	Private	Uganda
APONYE-Jinja	1500	Private	Uganda
AgroWays (U) Ltd.	2500	Private	Uganda
JZ HOLDINGS	20000	Private	Uganda
UPLAND RICE MILLERS	3000	Private	Uganda
Mayuge District Farmers Association (DFA), Mayuge Town	1000	Cooperative	Uganda
FARM UGANDA-Nawanyago	300	Cooperative	Uganda
Mayuge District Farmers Association (DFA), MAINA TRADING CENTER	300	Cooperative	Uganda
Mayuge District Farmers Association (DFA), MPUNGWE TRADING CENTER	300	Cooperative	Uganda
FARM UGANDA- Ndolwa	400	Cooperative	Uganda
Namutumba DFA, Bukonte Trading Centre	300	Cooperative	Uganda
Namutumba District Farmers Association (DFA), Namutumba Trading Centre	300	Cooperative	Uganda
Export Trading Uganda (ETU)	30000	Private	Uganda
Seba Food	20000	Private	Uganda
Budaka DFA, Budaka Town	300	Cooperative	Uganda
KACOFA	2000	Cooperative	Uganda
ACILA ENTERPRISES	300	Private	Uganda
Farmers Centre (U) Ltd. - Agwata Trading Centre	3000	Private	Uganda
On Millers Ltd	2100	Private	Uganda
Farmers Centre (U) Ltd. - Lira	300	Private	Uganda
A.K Oils and Fats (U) Ltd	20000	Private	Uganda
Farmers Centre (U) Ltd.	1000	Private	Uganda
MOUNT MERU	20000	Private	Uganda
Guru Nanak Oil Mills	1200	Private	Uganda
ARAK FARM ENT	500	Private	Uganda
Lango Cooperative Union Ltd (Ngetta Ginnery)	2000	Private	Uganda
D K Enterprises	2600	Private	Uganda
ABC	350	NGO	Uganda
Agaru SACCO	320	Cooperative	Uganda

VICTORIA SEEDS	400	Private	Uganda
OPIT & SONS MILLERS	600	Private	Uganda
CANLUBA MILLERS	300	Private	Uganda
WEST ACHOLI COOP UNION	4350	Cooperative	Uganda
WFP GULU	6300	NGO	Uganda
Peyero Millers Co Ltd	1500	Private	Uganda
AREDU Kigumba	400	Private	Uganda
AFRO-KAI-Kigumba	1000	Private	Uganda
MASINDI SEED GRAIN GROWERS ASSOCIATION	3000	Cooperative	Uganda
Nyati Rice Millers	5000	Private	Uganda
Kisita Area Coop Enterprise Ltd	1000	Cooperative	Uganda
Bugangayizi Farmers Association	1500	Cooperative	Uganda
Masode Coffee Factory	500	Private	Uganda
KAPEKA MAIZE GROWERS ASSOCIATION	700	Cooperative	Uganda
Wamala Growers Coop-Union Ltd, Mityana	1300	Cooperative	Uganda
Wamala Growers Coop-Union Ltd, Mubende	2000	Cooperative	Uganda
Surface Contractors (U) Ltd	1000	Private	Uganda
El Shaday General Trading	6000	Private	Uganda
Nyakatonzi Growers Cooperative Union Ltd	6000	Cooperative	Uganda
Aponye (U) Ltd, Masaka	8600	Private	Uganda
UNGA 2000	300	Private	Uganda
Mayazi Investments	6321	Private	Uganda
Mama Kasanga Market Store		Private	DRC
ETS Misago Sebastian Gitarenye LEAD VAC	50	Private	Burundi
ETS Misago Sebastian Gitarenya VAC	50	Private	Burundi
ETS Misago Sebastian Gitarenye VAC	50	Private	Burundi
ETS Misago Sebastian Rugari VAC	100	Private	Burundi
Sodea GBC	1500	Private	Burundi
ETS Misango Sebastian Bujumbura	3000	Private	Burundi
ETS Misago Sebastian Muyinga	3000	Private	Burundi
Kiuanduani VAC	60	Cooperative	Kenya
Kisayani VAC	60	Cooperative	Kenya
Machinery VAC	60	Cooperative	Kenya
Itangini VAC	60	Cooperative	Kenya
Makindu VAC	60	Cooperative	Kenya
Athi- Kiaoni VAC	60	Cooperative	Kenya
Mbui-Nzau VAC	60	Cooperative	Kenya
Kasemeini/Kalungu VAC	60	Cooperative	Kenya
Kibwezi VAC	60	Cooperative	Kenya
Kasasule VAC	60	Cooperative	Kenya
Maikuu VAC	60	Cooperative	Kenya

Kambu VAC	60	Cooperative	Kenya
Nuru GBC Nyametaburo	250	NGO	Kenya
Gukihuru VAC		NGO	Kenya
Gukipimo VAC		NGO	Kenya
Nyantare VAC		NGO	Kenya
Nyangiti VAC		NGO	Kenya
Bukumburi VAC		NGO	Kenya
Isibania VAC		NGO	Kenya
Masebe VAC		NGO	Kenya
Taragwiti VAC		NGO	Kenya
Keborui VAC		NGO	Kenya
Sirori Simba VAC		NGO	Kenya
Mama Millers Moi's Bridge	5173	Private	Kenya
Mama Millers Thika Town	3000	Private	Kenya
Chepareria VAC	270	Private	Kenya
Makutano Kapenguria VAC	35	Private	Kenya
Nangili VAC	68	Cooperative	Kenya
God favor women group	54	Cooperative	Kenya
Tuikoin VAC	194	Cooperative	Kenya
Segero VAC	54	Cooperative	Kenya
Moi's Bridge VAC	450	Cooperative	Kenya
Makutano Suwerwa VAC	108	Cooperative	Kenya
Kipkaren VAC	18	Cooperative	Kenya
Smart Logistics Machakos	2000	Private	Kenya
Smart Logistics Kambu VAC	200	Private	Kenya
Smart Logistics Kathunzueni VAC	200	Private	Kenya
Smart Logistics Maliku VAC	200	Private	Kenya
Smart Logistics Ungaatu VAC	200	Private	Kenya
Smart Logistics Waita VAC	200	Private	Kenya
Smart Logistics Matuu VAC	200	Private	Kenya
Smart Logistics Nguutani VAC	200	Private	Kenya
Mwailu GBC: Kiuandwani	1000	Private	Kenya
UCORIBU GBC Gikonko		Cooperative	Rwanda
UCORIBU Co-op No. 1		Cooperative	Rwanda
UCORIBU Co-op No. 2		Cooperative	Rwanda
UCORIBU Co-op No. 3		Cooperative	Rwanda
UCORIBU Co-op No. 4		Cooperative	Rwanda
UCORIBU Co-op No. 5		Cooperative	Rwanda
Ngiriyi		Cooperative	Rwanda
Agasasa		Cooperative	Rwanda
Nyarubogo		Cooperative	Rwanda

Cyili		Cooperative	Rwanda
SOSOMA GBC KICUKIRO	200	Private	Rwanda
ENAS GBC KIREHE	1600	Private	Rwanda
Maizeria de Mukamira Musanze		Private	Rwanda
Maizeria de Mukamira Gakenke		Private	Rwanda
Maizeria de Mukamira Gacaca		Private	Rwanda
PRODEV GBC Rwamagana and Kayonza		Cooperative	Rwanda
PRODEV GBC Nsinda		Cooperative	Rwanda
COAMV GBC Musanze		Cooperative	Rwanda
Kinigi		Cooperative	Rwanda
Gitinda		Cooperative	Rwanda
KASFA Karonga	500	Cooperative	Malawi
Mwakanamela Mzuzu	600	Cooperative	Malawi
Farmers World Mitundu	800	Cooperative	Malawi
MacGronomy Namitete	500	Cooperative	Malawi
Dalisto Walilanj	1500	Cooperative	Malawi
Mulli Brothers-Thuchila	2000	Cooperative	Malawi
Mwandama-Thondwe	1500	Cooperative	Malawi
UZ Investments-Mponela	7000	Cooperative	Malawi
Cheka-Ntchitsi	300	Cooperative	Malawi
Chitsotsa-Madisi	5000	Cooperative	Malawi
Zwii Enterprises-Muloza	400	Cooperative	Malawi
Mulli Brothers-Phalombe	2000	Cooperative	Malawi

B: RATIN SMS SERVER MANAGEMENT MANUAL

The RATIN SMS workstations have been configured to operate for 24 hours every day without going to sleep or on hibernation, The computers are also setup in a manner that they can automatically start after power loss.

The following tasks should **be performed every-morning**.

This will ensure that the Diafaan SMS Gateway Server is operational at all times.

1. **The RATIN PC should be POWERED ON.**
2. **Ensure the RATIN SMS MODEM is connected to RATIN PC.**

Note: The RATIN SMS MODEM is the modem with SMS query SIM card. This modem is used **to receive and send SMS'S on the RATIN PC** and **SHOULD NEVER** be used elsewhere. A separate modem should be used for the alternative internet provision via the 3 G router.

3. **The RATIN PC should be connected to the internet.**
 - Verify this by launching a browser and visiting any website.
 - If the primary internet is not available plug in the alternative internet connection via the TP LINK 3G router.
 - A 3G modem should be connected to the TP LINK router with the Modem light should ON, This light is either solid green or blue as shown the image below.

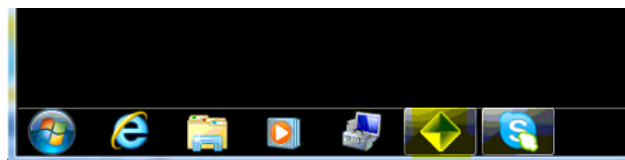


Refer to the *TP-Link MR 3420 users guide* or visit <http://www.tp-link.com/en/products/details/?model=TL-MR3420>

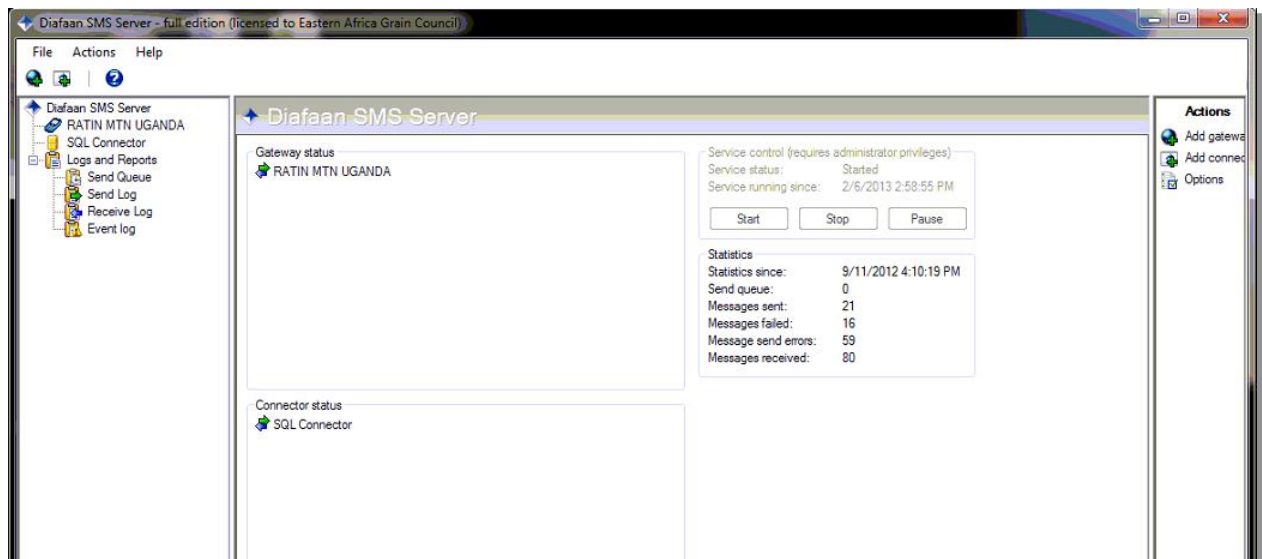
- A modem can ONLY be plugged directly into the PC if the alternative modem is

of a different make/model from the RATIN SMS modem. In Uganda for example, an **Orange Uganda ZTE** modem can be used since RATIN SMS modem is a **MTN Huawei** modem.

4. **Ensure that the RATIN SMS GATEWAY Server is running.**
 - a. To verify that the server is operational click on the Diafaan SMS server icon at the windows **task-bar** as shown below.



- b. Clicking the Diafaan icon on the status bar above should launch or load up Diafaan SMS console below.

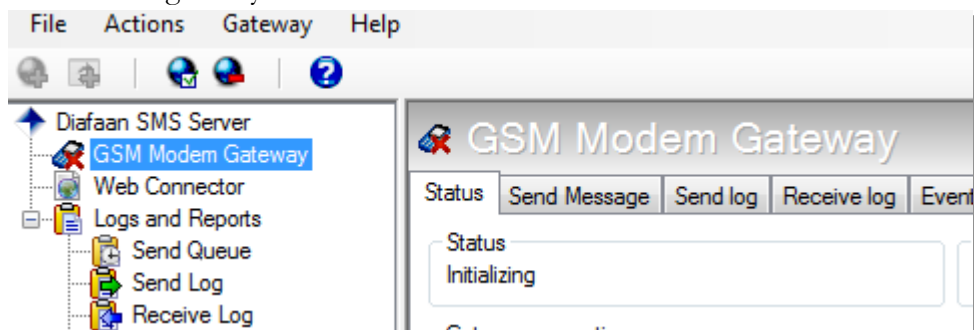


5. Ensure that RATIN Modem is operational on the Diafaan SMS gateway.

There are two methods of verifying the modem status .

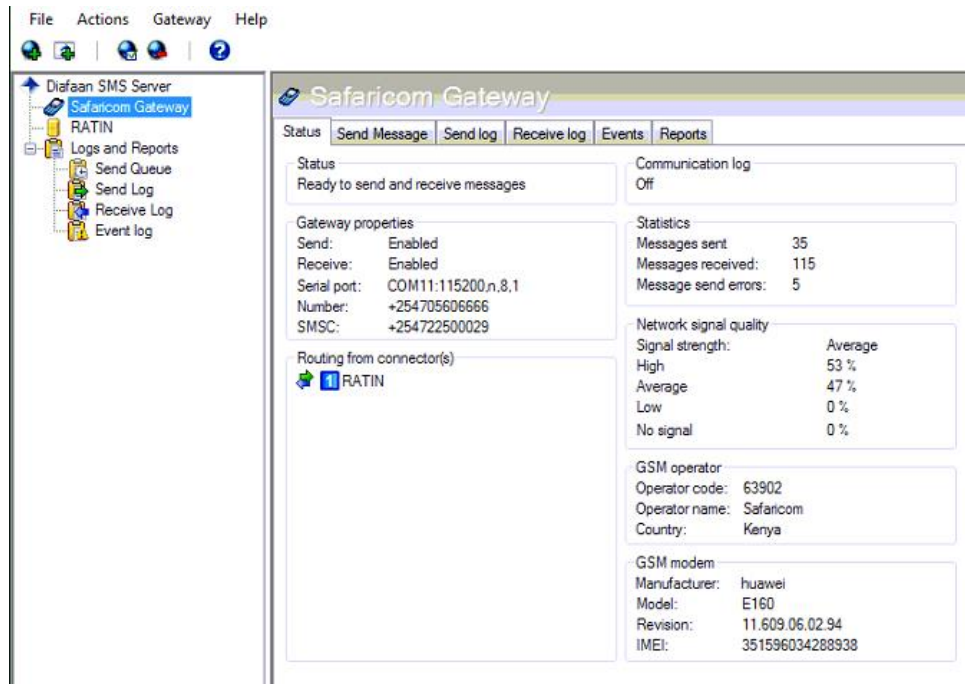
- a. Clicking the modem connector icon on the Diafaan SMS Gateway console .

The modem gateway icon should not be checked off as shown below.

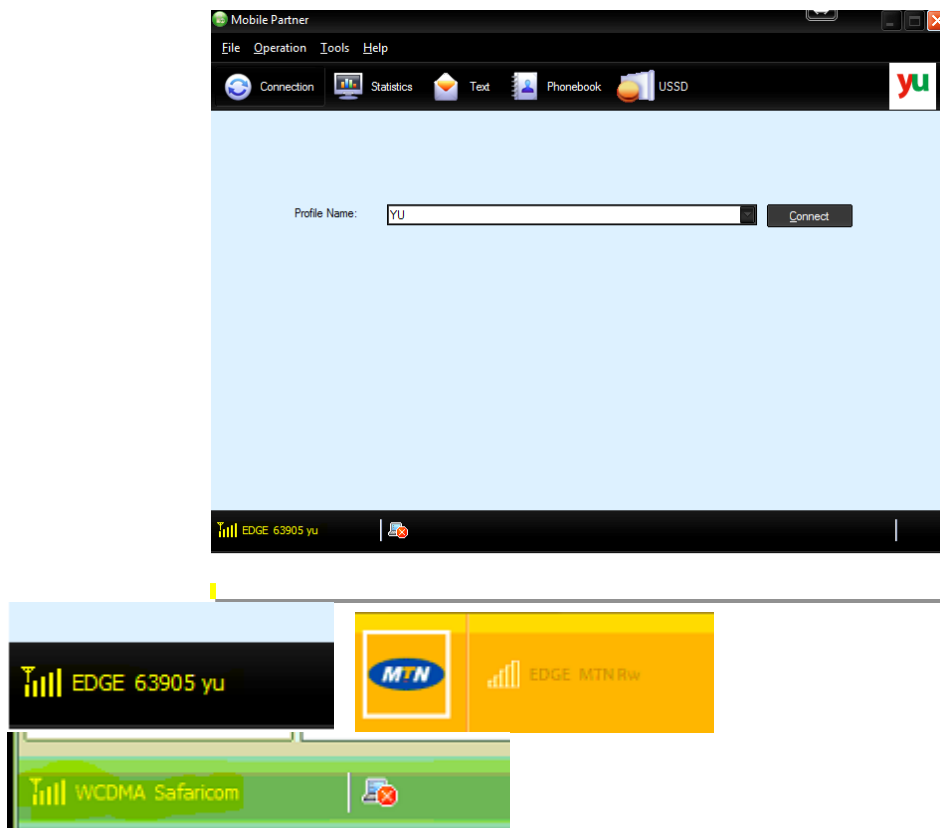


Note that the status tab of a failed modem is given as as “initialising” .

- On an operational modem the modem status tab will not be checked out , the status tab should read ” *ready to send and receive messages*” as shown below in the screenshot below.
- If the modem cannot be found then you need to:
 - Remove the RATIN SMS Modem from the PC then reconnect it after a minutes, verify if its connected within five minutes.
 - Shut down your computer for atleast two minutes and restart it.



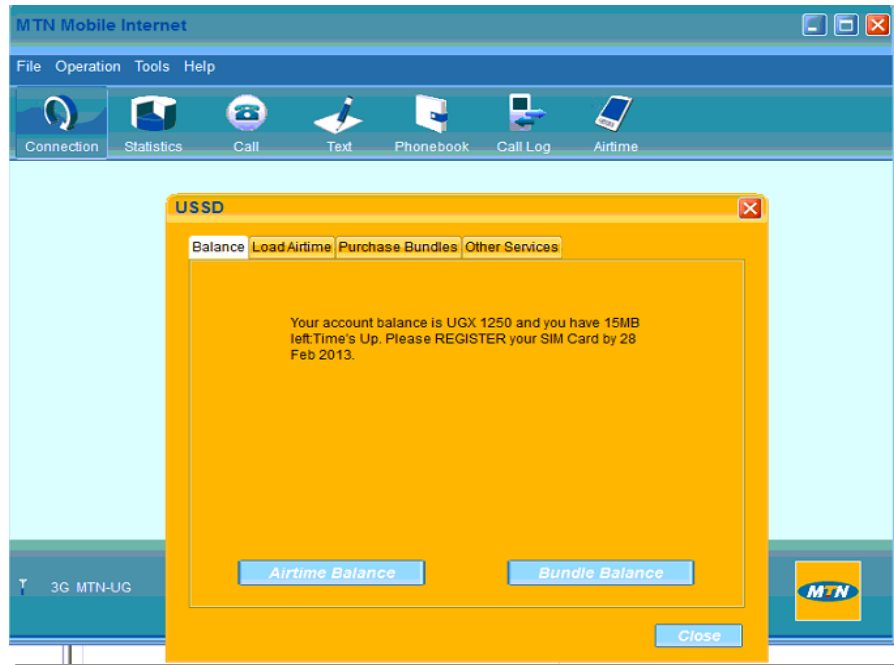
- b. You can also verify the modem functionality by launching the modem application, the signal icon should be active as shown below .



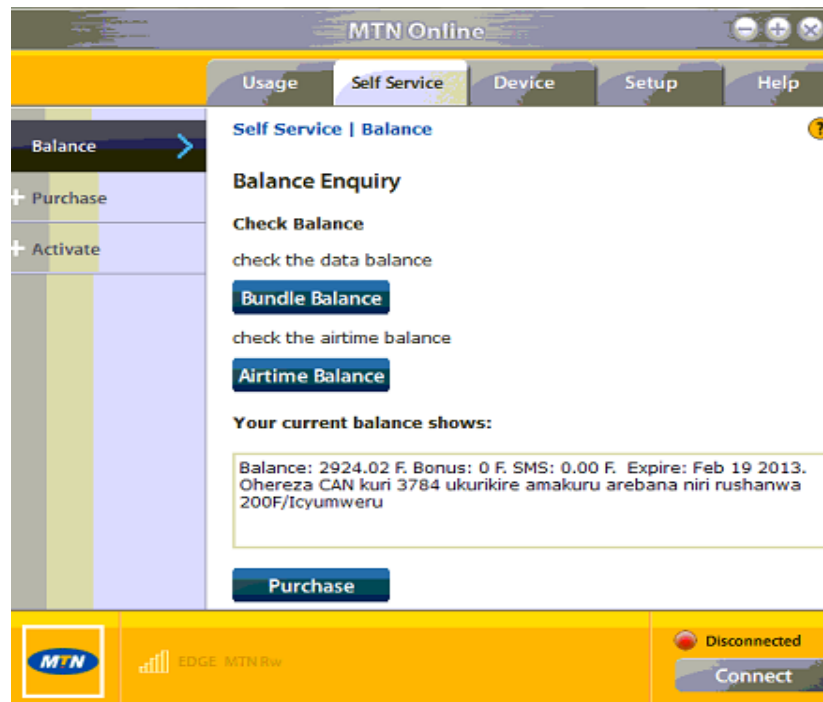
6. Ensure that the RATIN MODEM has sufficient airtime using the Modem's Application.

The following screenshots indicate airtime balance query using some of the modern applications;

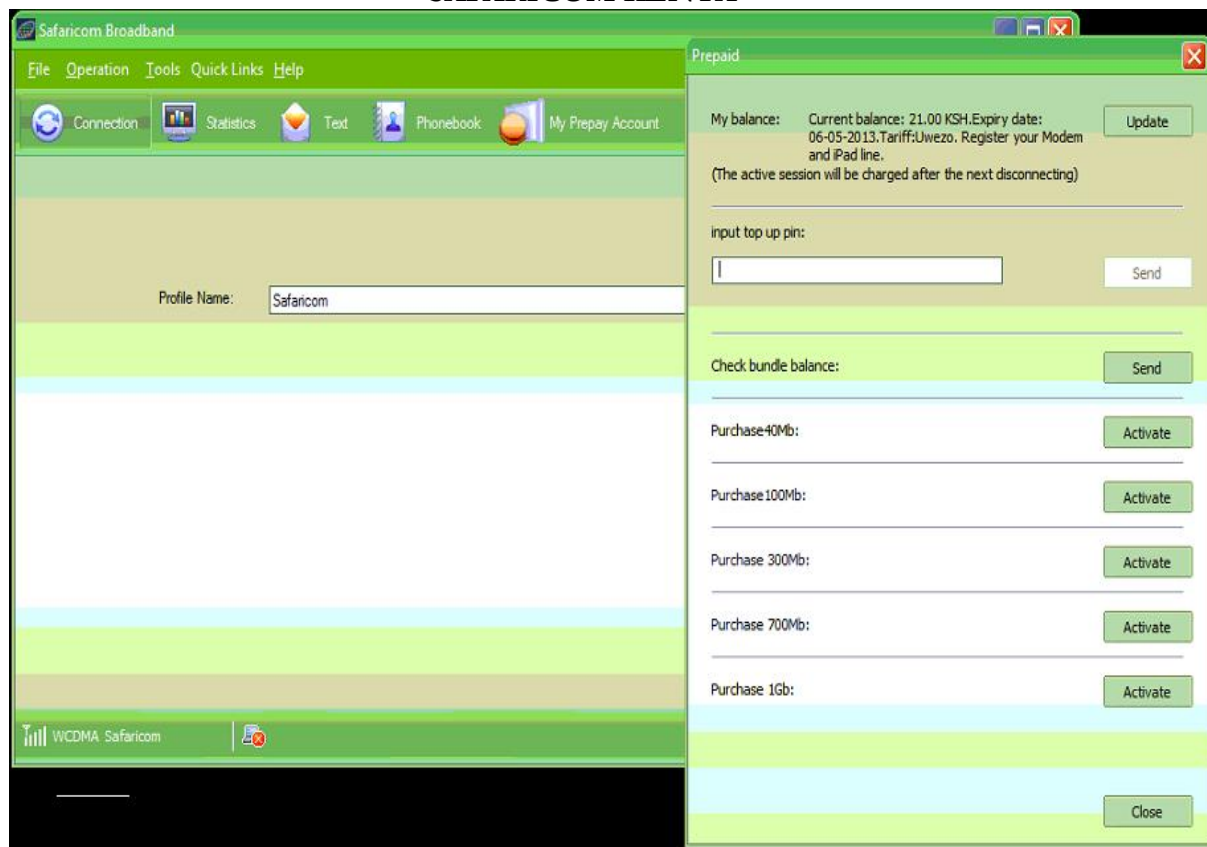
MTN UGANDA



MTN RWANDA



SAFARICOM KENYA



NOTE: Close the Modem Application after querying the balance or verifying modem presence. If left open the modem application will intercept data query messages meant for the SMS Server.

7. Verify that the SMS server can respond to SMS queries by sending a price query using **Town Product** format to the SMS query number e.g.

Meru Maize to 0705-606666 in Kenya

Rubengeri Beans to 0786-599980 in Rwanda

Kasese Millet to 0777-014800 in Uganda

You should receive an SMS with the prices for the inquired item.

To get details of messages received or sent through the server, check the send and receive logs under the Logs and Reports section of the Diafaan SMS server console shown below.

